CONSTRUCTION NEWS

UPS AND DOWNS OF THE MARKET

PIG IRON.—Prices cut on the steel-making grades to stimulate demand.

STEEL RAILS—The Steel Corporation's announcement that rail prices will not be changed has not affected independent quotations.

PIPE—No price changes on wrought or cast-iron pipe. Market practically the same as last month on sewer pipe.

WOOD BLOCKS—Decreases in New York and Minneapolis.

CONCRETING MATERIALS—Prices maintained in New York, in which district sand and gravel properties will operate until Jan. 15. Low demand in Minneapolis has reduced sand and crushed stone 25c. Hydrated lime up in Boston and Cincinnati; down in Minneapolis and Detroit. Cement up in Boston, Minneapolis and Cincinnati.

COMMON BRICK—Practically no changes since last month. A decline is expected in Baltimore within 30 days.

HOLLOW TILE—Decreases in Boston, Cincinnati and Baltimore; advance in Minneapolis. The Baltimore decrease is drastic, being 8@13½c. per tile; a further decline is expected within 30 days.

STRUCTURAL MATERIAL—Jones & Laughlin stated on Nov. 30 that they would adhere to the Steel Corporation price schedule. The other independents have made no statement and reinforcing rods, for example, are being quoted as high as $3. New York warehouse prices have declined sharply.

LUMBER—General drop of $3 on Douglas fir in San Francisco. Decreases in Boston, New Orleans, Baltimore, Cincinnati and Denver. Baltimore reports good stocks of yellow pine, light demand, and further drops expected. "B" and better pine flooring, which 30 days ago sold for $100, is now $95; maple flooring, clear, was $167.50, now $160; interior finish No. 1, was $100, now $90; ⅞-in. sheathing, was $57.50, now $50. New Orleans dealers expect no further decline in their territory. On Nov. 20 J. E. Rhodes, secretary-manager of the Southern Pine Association, states that the average weekly production of the mills of the association members is 380,000 ft., against 520,000 ft. at this time a year ago, yet production is still in excess of demand. Since March, prices have declined 30@50%.

LABOR—Continues to be increasingly plentiful.

Price advances are indicated by heavy type; declines by *italics*.

PIG IRON—Quotations compiled by The Matthew Addy Co.:

	Current	One Year Ago
CINCINNATI		
No. 2 Southern	**$46.50**	$36.60
Northern Basic	*40.00*	34.00
Southern Ohio No. 2	*47.00*	36.55
NEW YORK, tidewater delivery		
2X Virginia (silicon 2.25 to 2.75)	*52.40*	39.40
Southern No. 2 (silicon 2.25 to 2.75)	*52.10*	41.40
BIRMINGHAM		
No. 2 Foundry	**42.00**	33.00
PHILADELPHIA		
Eastern Pa	*46.00**	38.10*
Virginia No. 2	*46.25*†*	39.40†*
Basic	*44.00**	34.60*
Grey Forge	*45.50**	34.60*
CHICAGO		
No. 2 Foundry Local	*43.00@45.00*	36.25
No. 2 Foundry Southern	*46.00@48.00*	38.00
PITTSBURGH, including freight charge from the Valley		
No. 2 Foundry Valley	*44.00*	
Basic	*38.00*	34.40
Bessemer	*42.00*	35.40

* F.o.b. furnace. † Delivered.

RAILWAY SUPPLIES

STEEL RAILS—The following quotations are per ton f. o. b. Pittsburgh and Chicago for carload or larger lots. For less than carload lots 5c. per 100 lb. is charged extra:

	Pittsburgh		Chicago	
	Current	One Year Ago	Current	One Year Ago
Standard bessemer rails	*$45.00@$55.00*	$45.00	*$45.00@$55.00*	$45.00
Standard openhearth rails	*47.00@* 57.00	47.00	*47.00@* 57.00	47.00
Light rails, 8 to 10 lb.	2.88 @ 4.00*	2.585*	*2.45 @ 3.00**	2.585
Light rails, 12 to 14 lb.	2.84 @ 3.84*	2.54*	*2.41 @ 2.95**	2.54
Light rails, 25 to 45 lb.	2.75 @ 3.75*	2.45*	*2.32 @ 2.85**	2.45

* Per 100 lb.

RAILWAY TIES—For fair-sized orders, the following prices per tie hold:

		7 In. x 9 In. by 8 Ft. 6 In.	6 In. x 8 In. by 8½ Ft.
Chicago	Plain	$2.00	$2.25
Chicago	Creosoted	2.25	2.50
San Francisco	Douglas Fir—Green	1.35	.96
San Francisco	Douglas Fir—Creosoted	2.70	1.92

Prices per tie at mills in St. Louis district:

Untreated A Grade White Oak 6x8x8		Untreated A Grade Red Oak 6x8x8	
No. 1	$0.80	No. 1	$0.60
No. 2	.90	No. 2	.70
No. 3	1.00	No. 3	.80
No. 4	1.25		
7x9x8 white oak			1.05
7x9x8 red oak (No. 4)	$0.80	No. 5	.87

Note:—Prices delivered in St. Louis, white oak 6 x 8 x 8, best grade, $2; 7 x 9 x 9, $2.25.

TRACK SUPPLIES—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	— Pittsburgh — Current	One Year Ago	Chicago	St. Louis	San Francisco
Standard spikes, ⅜-in. and larger	$4 @ 4 25	$3.35	$3.40@4 00	$5 47½	$7 75
Track bolts	6 00@6 50	4 35	4.60@5.00	Premium	8 75
Standard section angle bars	3.00@4 00	3.00	2.75@3 40	Premium	5.45

PIPE

WROUGHT PIPE—The following discounts are to jobbers for carload lots on the Pittsburgh basing card:

Inches	Steel Black	Steel Galv.	Inches	Iron Black	Iron Galv.
		BUTT WELD			
⅛ to 3	54 to 57½	41½ to 44	⅛	15½ to 25½	+1½ to 11½
			¼	19½ to 29½	1½ to 11½
			⅜ to 1½	24½ to 34½	8 to 18½
		LAP WELD			
2	47 to 50½	34½ to 38	2	20½ to 28½	6½ to 14½
2½ to 6	50 to 53½	37½ to 41	2½ to 6	22½ to 30½	9½ to 17½
7 to 12	47 to 50½	33½ to 37	7 to 12	19½ to 27½	6½ to 14½
13 and 14	37½ to 41				
15	35 to 38½				
		BUTT WELD, EXTRA STRONG, PLAIN ENDS			
⅛ to 1¼	52 to 55½	39½ to 43	⅛ to 1½	24½ to 34½	9½ to 19½
2 to 3	53 to 56½	40½ to 44			
		LAP WELD, EXTRA STRONG, PLAIN ENDS			
2	45 to 48½	33½ to 37	2	21½ to 29½	8½ to 16½
2½ to 4	48 to 51½	36½ to 40	2½ to 4	23½ to 31½	11½ to 19½
4½ to 6	47 to 50½	35½ to 39	4½ to 6	22½ to 30½	10½ to 18½
7 to 8	43 to 46½	29½ to 33	7 to 8	14½ to 22½	2½ to 10½
9 to 12	38 to 41½	24½ to 28	9 to 12	9½ to 17½	5½ to +2½

STEEL—From warehouses at the places named the following discounts hold for steel pipe:

	Black New York	Black Chicago	Black St. Louis
⅛ to 3 in. butt welded	38%	54@40%	37%
2½ to 6 in. lap welded	33%	50@40%	33⅓%
	Galvanized New York	Galvanized Chicago	Galvanized St. Louis
⅛ to 3 in. butt welded	22%	40½@30%	22%
2½ to 6 in. lap welded	18%	37½%@27½	19%

Malleable fittings, Class B and C, from New York stock sell at +32% list prices. Cast iron, standard sizes, net.

CAST-IRON PIPE—The following are prices per net ton for carload lots:

	—New York— Current	One Month Ago	One Year Ago	Chicago	St. Louis	San Francisco
4 in.	$87.22	$87.22	$57.30	$88.10	$84.70	$110.70
6 in. and over	77.22	77.22	54.30	83.10	80.70	105.70

Gas pipe and Class "A," $4 per ton extra; 16-ft. lengths, $1 per ton.

CLAY DRAIN TILE—The following prices are per 1000 lin.ft.:

Size, In.	— New York — Current	One Year Ago	St. Louis	Chicago	San Francisco	Dallas
3	$62.00	$35.00	$60.00	$60.00	....	$60.00
4	77.50	51.00	70.00	80.00	$90.00	62.00
5	110.00	65.00	....	100.00	115.00	84.00
6	140.00	90.00	125.00	120.00	150.00	110.00
8	228.00	130.00	195.00	180.00	250.00	181.00

SEWER PIPE—The following prices are in cents per foot for carload lots:

Size, In.	— New York — Current Delivered	Year Ago Delivered	St. Louis	Chicago	San Francisco	Dallas
3	$0.24	$0.102	....	$0.15	$0.14	....
4	.24	.102	....	.15	.175	$0.25
5	.36	.153	....	.225	.21	....
6	.36	.153	$0.21	.225	.245	.35
8	.56	.238	.30	.35	.35	.50
10	.84	.357	.42	.525	.49	....
12	1.08	.459	.54	.625	.63	.90
15	1.61	.612	.806	.90	1.05	....
18	2.30	.85	1.054	1.25	1.47	....
20	2.76	1.02	1.426	1.50	1.96	....
22	3.68	1.36	....	2.00	....	....
24	4.14	1.53	1.86	2.25	2.52	....
27	....	2.45	3.00	3.50	3.50	....
30	....	2.664	3.65	4.00	4.20	....
33	....	3.51	4.60	4.75	....	....
36	....	3.9975	4.90	5.50	....	....
	3	5	8	12	24	36
Boston	$1.68	$0.252	$0.492	$0.756	$2.52	$6.457
Minneapolis	....	....	47	.85	2.75	6.16
Denver	Quotations not available					
Seattle	....	....	40	.80	2.88	....
Kansas City	No prices obtainable					
Los Angeles	.0975*	.1525*	.27	.48	.60*	....
New Orleans	....	.18	.425	.7225	2.7625	....
Cincinnati	.156	.234	.364	.712	2.34	....
Atlanta	.16*	.24*	.37½	.64	2.44	....
Montreal, *delivered*	.30	.45	.85	1.35	4.50	....
Detroit	.147	.22	.345	.665	2.30	5.23
Baltimore, *delivered*	....	.351	.546	1.053	3.51	....

* 4-in., 6-in., 30-in. respectively.

ROAD AND PAVING MATERIALS

ROAD OILS—Following are prices per gallon in tank cars 8000 gal minimum f.o.b. place named:

	Current	One Year Ago
New York, 45% asphalt (at terminal)	$0.12	$0.04
New York, 65% asphalt (" ")	.12	.06
New York, binder (" ")	.12	.06
New York, flux (" ")	.11	.05½
Liquid asphalt	.11	....
St. Louis, 40% asphalt	.12	.04
Chicago, 40-50% asphalt	.08½	.07
Chicago, 60-70% asphalt	.08½	.07
Dallas, 40-50% asphalt	.10	.07
Dallas, 60-70% asphalt	.13	.08
Dallas, 75-90% asphalt	.15	.10
San Francisco, binder, per ton	15.00	....

ASPHALTUM—Price per ton in packages (350-lb. bbls. or 425-lb. drums), and in bulk in carload lots:

	Package	Bulk
New York (Bayonne, N. J.)	$36.50	$35.00
Boston	42.42	37.00
Chicago	37.50	30.00
San Francisco	21.50	15.00
Dallas	50.00	47.00
Seattle	27.00	....
Denver	....	50@65
Minneapolis	34.00	28.00
Kansas City	40.00	32.00
St. Louis	40@45	....
Baltimore	42.00	....
Los Angeles	21.15	....
Montreal	....	37.00
Atlanta	56.50	....
Detroit	49.00	42.25
Maurer, N. J.	35.00	32.00
	42.00	41.00

PAVING STONE—

New York	5-in. granite	No quotations	
Chicago	About 4x8x4 dressed	$3.40	sq.yd.
	About 4x8x4 common	3.05	sq.yd.
San Francisco	Basalt block 4x7x8	65.00	per M
Kansas City	Granite	3.65	sq.yd.
Boston	5-in. granite	110.00	per M
Atlanta	Granite	2.00	sq.yd.
Detroit	Granite, 26½ blocks per sq. yd.	4.50	sq.yd.
Baltimore	Granite	2.50	sq.yd.
Montreal	Granite	5.90	sq.yd.
New Orleans	Granite	3.00	sq.yd.
Cincinnati	Granite	3.25	sq.yd.

FLAGGING—

New York	Bronx	$0.25	sq.ft.
	Manhattan, 4 ft.	.26	sq.ft.
	Queens, 5 ft.	.26	sq.ft.
	6x20-in. cross-walk	.95	lin.ft.
Chicago	18 in. wide	.70	lin.ft.

CURBING—Bluestone per lineal foot, in New York, costs 70c. for 5x16 in., 80c. for 5x18 in.

WOOD BLOCK PAVING—

	Size of Block	Treatment	Per Sq.Yd.
New York	3½	16	$3.67
New York	4	16	3.99
Boston	3	16	3.00
Chicago	4	16	3.75@4.00
Chicago	3½	16	3.25@3.50
St. Louis	3½	16	3.10
St. Louis	4	16	3.55
Seattle	4	16	Off market
Kansas City	4	16	3.00
Minneapolis	3½	16	3.00
Atlanta	3½	16	2.30
New Orleans	3	16	2.99
New Orleans	3½	16	3.42
New Orleans	4	16	3.85
Dallas	4	18	4.00
Baltimore	3½	16	3.80
Montreal	4	16	4.60
Detroit	3½	16	3.40

CONSTRUCTION MATERIALS

SAND AND GRAVEL—Price for cargo or carload lots is as follows, per cu.yd.:

	Gravel 1½ In. Current	1½ In. One Yr. Ago	Gravel ¾ In. Current	¾ In. One Yr. Ago	Sand Current	Sand One Yr. Ago
New York	$3.00	$2.00	$3.00	$2.00	$1.50	$1.25
Denver	2.00	1.60	1.80	1.60	1.60	1.25
Chicago	2.75	2.00	2.75	2.00	2.75	2.00
Kansas City	3.25	2.50	3.75	3.00	1.25†	1.00
St. Louis	1.65	1.78	1.70	1.82	1.70*	1.68
Seattle, per ton	1.25	1.20	1.25	1.25	1.25	1.05
Dallas	2.50	3.50	2.50	3.50	2.00	2.25
Minneapolis	2.00	1.25	....	1.35	1.00	.60
Cincinnati	2.00	....	2.00	....	2.00	1.35‡
San Francisco	2.50	1.15	2.50	1.15	1.65	1.00
Boston	2.00	1.60‡	2.60	1.65‡	1.60	....
New Orleans	3.60	2.40	....	2.40	1.85	1.20
Los Angeles	1.25	1.02	1.25	1.02	1.15	.70
Atlanta, per ton	3.12	2.25	....	....	1.62	1.15
Detroit	1.85*	2.50	1.85*	1.90	3.50‖	2.50
Baltimore, per ton	1.40‡	1.54	1.60‡	1.60	.70	.65
Montreal, per ton	1.50‡	1.20	....	....	1.25‡	1.10

* Fine white sand, Pacific and Ottawa, per ton $6.
† Kaw River sand is $1.75 per yd. ‡ per ton. ‖ delivered

CRUSHED STONE—Price for cargo or carload lots is as follows, per cu. yd.:

	1½ In.		¾ In.	
	Current	One Year Ago	Current	One Year Ago
New York	$1 90@2 00	$1 65@1 75	$2.15	$1 75@1 85
Chicago	2.75	2.00	2.75	2.00
St. Louis	2.00	1.50	2.00	1.50
Dallas	2.50	2.90	2.50	2.80
San Francisco	2.50	1.50	2.50	1.50
Boston	3.00*(del)	2.75	3.00 (del)	2.75
Minneapolis	2.00†	1.15	2.25†	1.25
Denver	....	....	....	1.60
Kansas City	2.35	2.25	2.35	2.35
Seattle (Del.)	3.50	2.00	3.50	2.00
Atlanta	3.25	2.55	3.50	2.65
Cincinnati	2.30	....	2.15	....
Los Angeles	1.60*	1.20	1.70*	1.12
Detroit	2.00	1.75	2.00*	1.75
Baltimore	1.75*	1.25	1.75*	1.50
Montreal	2.30*	1.90	2.55*	2.15

* Per ton. † Limestone; traprock, $1.60 and $1.80 per ton for 1½ and ¾-in.

CRUSHED SLAG—Price of crushed slag per net ton in carload lots:

	1½-In.	¾-In.	Roofing	Sand
Lebanon or Bethlehem, Pa	$1 00	$1 00	$2 50	$0 90
Easton, Pa	1 20	1 20	3 00	1 10
Buffalo, N. Y	1 25	1 00	2 00	1 00
East Canaan, Conn	1 25	1 35	3 50	1 10
Birmingham, Ala	1 25	1 25	2 05	1 00
Toledo, Ohio	1 50	1 50	2 35	....

LIME—Warehouse prices:

	Hydrated per Ton		Lump per 200-Lb. Barrel	
	Finished	Common	Finished	Common
New York	$21.00	$20.00	$3.80*-at plant-	$3.60*
Kansas City	27.20	26.20	2.50	2.40
Chicago	....	....	....	1.65
St. Louis	27.00	21.00	....	2.75
Boston	28.00	27.00	....	3.95†
Dallas	....	25.00	....	2.50†
Cincinnati	17.60	17.60	....	2.10‡
San Francisco	25.40	22.00	....	2.25
Minneapolis	28.00	21.00	2.10	1.80
Denver	32.00	....	1.05 (bu.)	....
Detroit	22.00	19.00	2.00†	1.80†
Seattle	30.00	....	2.85†	....
Los Angeles	2.75†	2.20†	2.75†	2.00†
Baltimore	23.50 (East)	....	....	13.00‡
Montreal	25.00	25.00	15.00‡	15.00‡
Atlanta	....	....	3.00†	2.75†
New Orleans	24.50	24.50	3.00	2.85

* 300-lb. barrels. †Per 180-lb. barrel. ‡ Per ton.

NOTE—Refund of 10c. per barrel with 25c per ton off on hydrated.

NATURAL CEMENT—Price to dealers for 500 bbl. or over, f. o. b., exclusive of bags:

	Current	One Year Ago
Minneapolis (Rosendale)	$1.85	$1.45
Kansas City (Ft. Scott)	1.60	1.50
New Orleans	3.36	2.52
Atlanta (Magnolia)	1.90	1.85
Cincinnati (Louisville)	2.85	1.35
Boston (Rosedale)	2.35	....

PORTLAND CEMENT—Current prices are for barrels in carload lots, *without* bags, to contractors:

	Current Without Bags	One Month Ago Without Bags	One Year Ago Without Bags
New York (del.)	$4.10	$4.10	$2.80
Jersey City (del.)	3.55	4.39	2.47
Boston	3.63	3.32	2.42
Chicago	2.35	2.35	2.00
Pittsburgh	2.42	2.42	2.05
Cleveland	2.73	2.73	2.32
Detroit	2.78	2.71	2.08
Indianapolis	2.61	2.61	2.27
Toledo	2.71	2.71	2.12
Milwaukee	2.59	2.59	2.11
Duluth	2.35	2.35	2.10
Peoria	2.63	2.63	2.12
Cedar Rapids	2.71	2.71	2.18
Davenport	2.67	2.67	2.14
St. Louis	3.45	3.45	2.20
San Francisco	3.09	3.09	2.43
New Orleans	4.60	4.60	2.36
Minneapolis	3.50	3.30	2.22
Denver	3.25	3.25	3.12
Kansas City	2.76	2.76	2.26
Seattle	3.12	3.12	2.68
Dallas	3.85	3.85	2.03
Atlanta	3.75	3.75	2.50
Cincinnati	3.32	2.85	2.35
Los Angeles	3.10	3.10	2.78
Baltimore (del)	4.08	4.59	2.90
Montreal (including bags)	3.52	3.00	2.50

NOTE—Bag charge is generally 25c. each.

TRIANGLE MESH—Price per 100 sq. ft. in carload lots:

PLAIN 4-INCH by 4-INCH MESH

Style Number	Sectional Area Square per Ft.	Inches Width	Pittsburgh	New York*	Chicago†	St. Louis	Dallas	San Francisco
032	0.032		$1.24	$1.55	$0.98	$1.03	$1.13	$1.32
049	0.049		1.56	1.95	1.26	1.32	1.43	1.67
068	0.068		1.88	2.35	1.53	1.61	1.79	2.06
093	0.093		2.38	2.98	1.97	2.07	2.41	2.65
126	0.126		2.93	3.67	2.43	2.57	2.92	3.28
153	0.153		3.47	4.34	2.90	3.06	3.48	3.93
180	0.180		3.97	4.97	3.33	3.51	3.99	....
245	0.245		5.21	6.52	4.40	4.64	5.27	....
287	0.287		6.80	7.50	5.08	5.36	6.10	6.86
336	0.336		6.93	8.67	5.89*	6.21	7.06	....
395	0.395		8.02	10.03	6.83	7.20	8.19	....
PAVING								
036P	0.036		$0.98	$1.23	$0.76	$0.79	$0.80	....
053P	0.053		1.34	1.68	1.06	1.12	1.12	....
072P	0.072		1.66	2.08	1.34	1.41	1.46	....
097P	0.097		2.11	1.76	1.73	1.82	1.88	....
049R	0.049		1.34	2.08	1.06	1.12	1.12	....
067R	0.067		1.66	2.64	1.34	1.49	1.46	....
089R	0.089		2.11	....	1.73	1.82	1.88	....

Made in 16-, 20-, 24-, 28-, 32-, 36-, 40-, 44-, 48-, 52- and 56-in. width in rolls 150-, 200- and 300-ft. lengths. Galvanized is about 10% higher.

EXPANDED METAL LATH—Prices in carload lots per 100 yd. for painted are as follows:

Gage	Weight	New York*—Current Carloads	New York*—Current Less Carloads	Chicago	St. Louis	San Francisco	Dallas
27	233	$32.10	$32.20*	$33.60†	$35.00	$37.25	$32.75
26	250	33.45	33.65*	35.20†	36.00	....	34.50
25	300	34.90	35.00*	36.90†	....	40.50	36.75
24	340	36.50	36.65*	40.00†	39.00	46.25	39.25
22	450	39.60	39.80*	45.10†	....	....	43.30

* Delivered on job.

†Galvanized is $8 per 100 yd., additional.

BARS, CONCRETE REINFORCING—Following quotations are per 100 lb.:

ROLLED FROM BILLETS

In.	Warehouse, Uncut: Mill Pittsburgh	New York Current	Chicago	Dallas	San Francisco
½ and larger	$2.35@$3.50	$3.63@$3.70	$3.48@$3.87	$3.87	$4.75 $5.30
⅝	2.40@3.50	3.68@3.75	3.53@3.92	3.92	4.80 5.35
¾	2.45@3.50	3.73@3.80	3.58@3.97	3.97	4.95 5.40
⅞	2.60@3.50	3.88@3.95	3.63@4.12	4.12	5.00 5.55
1	2.85@3.50	4.13@4.20	4.18@4.57	4.57	5.05 5.80

Twisted bars cut to length take extra of 27½c. per 100 lb.

ROLLED FROM RAILS

	Chicago	St. Louis	Dallas		Chicago	St. Louis	Dallas
½ in. and larger	$4.00	$4.00	$4.25	⅝	$4.25	$4.25	....
⅝	4.05	4.05	4.30	¾	....	....	....
¾	4.10	4.10	....	....	....	....	....

BRICK—To contractors price per 1000 in cargo or carload lots is as follows:

	Common: Current	Common: One Month Ago	Common: One Year Ago	—Paving Block— 3-inch	4-inch
New York (del)	$22.70	$22.70	....	$57.20*	$63.30*
New Orleans	25.50	25.50	$19.00	....	....
Chicago	15.00	15.00	12.00	45.00	....
St. Louis, salmon	17.00†	17.00	12.00	....	....
Denver	15.00	15.00	14.00	....	....
Dallas	25.00	25.00	18.57	....	....
San Francisco	18.00	18.00	12.50	....	44.38
Los Angeles	13.50	13.50	12.50	....	....
Boston	30.00	30.00	18.00	59.25*	66.25*
Minneapolis (del.)	24@26	24.00	14.50	....	....
Kansas City	22.00	22.00	16.00	....	....
Seattle	19.00	19.00	15.00	48.00	53.50
Cincinnati	22@23	24.00	17.00	....	....
Montreal (del.)	20.00	20.00	15.00	....	....
Detroit	20.00	22.00	17.25	46.00	52.00
Baltimore (del.)	20.00–25.00	22.50	18.00	....	44.00‡
Atlanta	20.00	20.00	....	....	....

*For paving blocks 3½x8½x3 and 3½x8½x4 respectively. †Hard brick $20.50 in St. Louis. ‡Vitrified, f. o. b. plant, Baltimore.

HOLLOW TILE—Price per block in carload lots for hollow building tile:

	New York: Current on Trucks	New York: One Year Ago	Chicago	St. Louis	San Francisco	Factory Perth Amboy N. J.,
4x12x12	$0.2444*	$0.11475	$0.1347	$0.145	$.145	....
6x12x12	3259*	.153	.2021	....	.21	....
8x12x12	4345*	.204	.2425	.245	.29	.4358
10x12x12	....	....	.3032	....	....	.5447
12x12x12	....	....	.3638	.36	....	.6537

*Partition title. Less 5% for cash, 15 days.

	4x12x12	8x12x12	12x12x12
Boston	$0.19	$0.443	$0.475
Minneapolis	.121	.2117	.3314
Cincinnati	.125	‡	
Kansas City	No prices obtainable		
Denver	Quotations withdrawn		
Seattle	.13	.175	.30
Los Angeles	.10	.175	....
New Orleans	.30	.40	.60
Detroit	15	27	39
Montreal	.22	.30	.36
Baltimore	.16	.27	.45
Atlanta	.142	237	....

STRUCTURAL MATERIAL—Following are base prices f.o.b. mill, Pittsburgh, together with quotations per 100 lb. from warehouses at places named:

	Mill Pittsburgh	New York Current	New York 1 Yr. Ago	St. Louis	Chicago	San Francisco
Beams, 3 to 15 in.	$2.45@$3.00	$3.80	$3.47	$4.04	$3.58	$5.55
Channels, 3 to 15 in.	2.45@ 3.00	3.80	3.47	4.04	3.58	5.55
Angles, 3 to 6 in., ¼ in. thick	2.45@ 3.00	3.80	3.47	4.04	3.58	5.55
Tees, 3 in. and larger	2.45@ 3.75	3.85	3.52	4.09	3.58	5.55
Plates	2.65@ 4.00	4.00	3.67	4.24	3.78	5.80

RIVETS—The following quotations are per 100 lb.:

STRUCTURAL

	Warehouse: Mill Pittsburgh	New York Current	New York One Yr. Ago	Chicago	St. Louis	San Francisco	Dallas
½ in. and larger	$4.50	$6.11	$4.72	$5.00	$5.69	$7.05	$7.50

CONE HEAD BOILER

½ in. and larger	4.60	7.10	$4.82	5.10	5.79	7.15	7.50
⅝ and ¾	4.75	7.25	4.97	5.25	5.94	7.40	7.50
⅞ and 1	5.00	7.50	5.32	5.60	6.19	7.65	7.75

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

NAILS—The following quotations are per keg from warehouse:

	Mill Pittsburgh	New York	Chicago	San Francisco	Dallas	Montreal
Wire	$4.25	$8.50	4.45	$6.45	$6.90	$4.95
Cut		10.00	8.00@11.00	8.95	6.40	5.00

PREPARED ROOFINGS—Standard grade rubbered surface, complete with nails and cement, costs per square as follows at maufacturing points:

	New York 1-Ply c.l.	New York 2-Ply l.c.l.	New York 3-Ply c.l.	Philadelphia 1-Ply c.l.	Philadelphia 2-Ply l.c.l.	Philadelphia 3-Ply c.l.
No. 1 grade	$2.50	$3.00	$3.55	$2.40	$2.90	$3.45
No. 2 grade	2.25	2.70	3.20	2.15	2.60	3.10

Slate-surfaced roofing (red and green) in rolls of 108 sq.ft. costs $4.50 per roll in carload lots and $4.75 for smaller quantities.

Shingles, red and green slate finish, cost $10.00 per square in carloads; $10.25 in smaller quantities, in Philadelphia.

ROOFING MATERIALS—Prices per ton f.o.b. New York and Chicago:

Tar felt (14 lb. per square of 100 sq.ft.) per roll	$3.55
Tar pitch (in 400-lb. bbl.) per 100 lb.	2.25
Asphalt pitch (in barrels) per ton	56.50
Asphalt felt (light) per ton	132.00
Asphalt felt (heavy) per ton	138.00

SHEETS—Quotations are in cents per pound in various cities from warehouse also the base quotations from mill:

Blue Annealed	Large Mill Lots Pittsburgh	St. Louis	Chicago	San Francisco	New York Current	New York One Yr. Ago
No. 10	$3.55@$7.00	$7.09	$6.13	$8.65	$5.90@$8.00	$4.82
No. 12	3.60@ 7.05	7.09	6.18	8.70	5.95@ 8.05	4.87
No. 14	3.65@ 7.10	7.09	6.23	8.75	6.00@ 8.10	4.92
No. 16	3.75@ 7.20	7.09	6.33	8.85	6.10@ 8.20	5.02
Black						
*Nos. 18 and 20	4.20@ 6.20	8.10	6.90	10.60	7.65@ 9.80	5.80
*Nos. 22 and 24	4.25@ 6.25	8.10	6.95	10.65	7.70@ 9.85	5.85
*No. 26	4.30@ 6.30	8.10	7.00	10.70	7.75@ 9.90	5.90
*No. 28	4.35@ 6.35	8.10	7.10	10.80	7.85@10.00	6.00
Galvanized						
No. 10	4.70@ 7.00	9.60	7.25	...	8.05@11.50	6.25
No. 12	4.80@ 7.10	9.60	7.30	11.35	8.15@11.50	6.30
No. 14	4.80@ 7.10	9.60	7.45	11.35	8.15@11.50	6.35
Nos. 18 and 20	5.10@ 7.40	9.60	7.75	11.65	8.40@11.90	6.65
Nos. 22 and 24	5.25@ 7.55	9.60	8.15	11.80	8.55@12.05	6.80
*No. 26	5.40@ 7.70	9.60	8.30	11.95	8.70@12.20	6.95
*No. 28	5.70@ 8.00	9.60	8.60	12.25	9.00@12.50	7.25

*For painted corrugated sheets add 30c. per 1000 lb. for 5 to 28 gage; 25c. for 19 to 24 gages; for galvanized corrugated sheets add 15c., all gages.

LINSEED OIL—These prices are per gallon:

	New York Current	New York One Year Ago	Chicago Current	Chicago One Year Ago
Raw in barrel (5 bbl.)	$0.95	$2.15	$1.25	$2.37
5-gal. cans	1.10	2.30	1.50	2.57

WHITE AND RED LEAD—Base price per pound:

	Red Current Dry	Red Current In Oil	Red 1 Year Ago Dry	Red 1 Year Ago In Oil	White Current Dry and In Oil	White 1 Yr. Ago Dry and In Oil
100-lb. keg	14.25	15.75	13.00	14.50	14.25	13.00
25 and 50-lb. kegs	14.50	16.00	13.25	14.75	14.50	13.25
12½-lb. keg	14.75	16.25	13.50	15.00	14.75	13.50
5-lb. cans	17.25	18.75	15.00	16.50	17.25	15.00
1-lb. cans	19.25	20.75	16.00	17.50	19.25	16.00

500 lb. lots less 10% discount; 2000 lb. lots less 10-2½% discount.

LUMBER

San Francisco—Prices of rough Douglas fir No. 1 common, in more than carload lots:

Lumber Prices in Yards at San Francisco

	6-8-12 and 14 Ft.	10-16-18 and 20 Ft.	22 and 24 Ft.	25 to 32 Ft.
3x3 and 4	$30.00	$30.50	$31.50	$33.50
3x6 and 8	31.00	31.50	32.50	34.50
4x4-6 and 8	31.50	32.50	33.50	35.50
3x10 and 12	31.50	32.50	33.50	35.50
3x14	32.00	33.00	34.00	36.00
4x10 and 12	31.50	32.50	33.50	35.50
4x14	32.50	33.50	34.50	36.50

	24 Ft. and Under	25 to 32 Ft.	33 to 40 Ft.
6x10	$31.00	$33.00	$34.00
6x14	32.50	34.50	35.00
8x10	31.00	33.00	34.00
8x14	32.50	34.50	35.00

New York, Chicago and St. Louis

	Southern Pine: New York* 20 Ft. and Under	New York* 22-24 Ft.	Chicago 20 Ft. and Under	Chicago 22-24 Ft.	Yellow Pine: St. Louis 20 Ft. and Under	St. Louis 22-24 Ft
3x 4 to 8x8	$52.00	$53.00	$60.00	$61.00	46 50@56.75	48 25@58.00
3x10 to 10x10	57.00	56.00	62.00	63.00	48 75@60.75	50 00@62.00
3x12 to 12x12	63.00	62.00	64.00	65.00	53 25@65.25	54 50@66.50
3x14 to 14x14	68.00	67.00	67.00	68.00	62 00@73.75	63 00@75.00
3x16 to 16x16	75.00	74.00	72.00	73.00	68 00@80.00	69 00@81.00
3x18 to 18x18	87.00	86.00	77.00	78.00		
4x20 to 20x20	92.00	91.00	82.00	83.00		

*For long leaf pine. Short leaf pine up to 14 x 14 costs $15 per M. less.

Over 24 ft.—Add $1 for each additional 2 ft. in length up to 30 ft for sizes 12 x 12 and under, for sizes over 12 x 12 add $2. for merchantable add $2 to sizes 10 x 10 and under. For prime add $2 to the price of merchantable for all aizes.

Other Cities

	8 x 8-In. x 20-Ft. and Under: P.	Fir	Hemlock	Spruce	12 x 12-In. 20 Ft. and Under: P.	Fir
Boston	$65.00	$65.00	$52.00	$58.00	$82.00	$68.00
Kansas City	51.00	51.25	51.25	51.25	60.00	51.25
Seattle	.....	32.00	.....	.....	.....	32.00
New Orleans	38.00	.....	.....	.....	42.00	.....
Baltimore	70.00	.....	.....	.....	80.00	.....
Cincinnati	37.50	.....	.....	.....	45.00	.....
Montreal	87.00	87.00	70.00	85.00	79.00	110.00
Los Angeles†	.....	57.00	.....	.....	.....	59.00
Detroit	57.00	77.50	.....	.....	67.25	67.25
Denver	.....	42.75	.....	.....	.....	42.75
Minneapolis	.....	46.00	43.00	.....	.....	46.00
Atlanta	45.00	.....	.....	.....	70.00	.....

	1-In. Rough, 10 In. x 16 Ft. and Under: P.	Fir	Hemlock	2-In. T. and Gr. 10 In. x 16 Ft. P.	Fir
Boston	.....	$62.00	$74.00	$47.00	$63.00
Kansas City	.....	102.00	106.50	106.50	113.00
Seattle	.....	.....	37.50	.....	.....
New Orleans	65.00	.....	.....	40.00	.....
Baltimore	50@57.50	.....	.....	54@60	.....
Cincinnati	34.00	.....	.....	35.00	50.00
Montreal	80.00	80.00	70.00	85.00	85.00
Los Angeles	.....	58.00	.....	.....	.....
Detroit	43.00	.....	43.00	.....	44.00
Denver	.....	37.75	.....	.....	35.25
Minneapolis	.....	36.00	42.25	.....	34.75
Atlanta	50.00	.....	.....	45.00	.....

* Montreal—Up to 32 ft.: over which, $3.00 per M. increase up to 30 ft.

† Base price, 2 x 3's and 2 x 4's, 8 to 14 ft., is $54.00

Detroit—4 x 4 x 12, fir D, $50; rough fir, $53; 2 x 6 x 6, hemlock D sides, $50 2 x 12 x 18, rough fir, $52.50; 2 x 12 x 12, rough fir, $52; 2 x 4 x 16 fir D, $50

FREIGHT RATES

On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb., in carloads of 36,000 lb.:

Boston	$0.41½	New Orleans	$0.51½
Buffalo	.29½	New York	.38
Chicago	.38	Pacific Coast (all rail)	1.66½†
Cincinnati	.33	Philadelphia	.35
Cleveland	.24	St. Louis	.47½
Denver	1.35*	St. Paul	.69½
Kansas City	.81½	Detroit	.33
		Baltimore	.33½

Note—Add 3% transportation tax. * Minimum carload, 40,000 lb.
† Minimum carload, 50,000 lb., structural steel only.

CONTRACTORS' SUPPLIES

STEEL SHEET PILING—The following price is base per 100 lb. f. o. b. Pittsburgh, with a comparison of a month and a year ago:

Current	One Month Ago	One Year Ago
$4.00@$4.50	$4.00@5.00	$2.55

WIRE ROPE—Discounts from list price on regular grades of bright and galvanized are as follows:

	New York
Hercules red strand, all constructions	20%
Patent flattened strand, special and cast steel	20%
Patent flattened strand, iron rope	5%
Plow steel round strand rope	30%
Special steel round strand rope	30%
Cast steel round strand rope	22½%
Iron strand and iron tiller	5%
Galvanized iron rigging and guy rope	+12%

San Francisco: Galvanized Iron Rigging and Guy Ropes, +17½%; Bright 1 low, 25% off.

Chicago, + 10 on galvanized, 22½ — 2½ off on bright.

Western and California territory, 20% plow steel, 22½% galvanized iron rigging and guy rope.

Montana, Idaho and Arizona, 15% plow steel; 27½% galvanized iron rigging and guy rope.

MANILA ROPE—For rope smaller than ½-in. the price is ½ to 2c. extra; while for quantities amounting to less than 600 ft. there is an extra charge of 1c. The number of feet per pound for the various sizes is as follows: ½-in., 8 ft., ¾-in., 6; ⅞-in., 4½; 1-in., 3½; 1¼-in., 2 ft. 10 in.; 1½-in., 2 ft. 4 in. Following is price per pound for ½-in. and larger, in 1200-ft. coils:

Boston	$0.28	Kansas City	$0.30½
New York	.27	New Orleans	.26½
Chicago	.27½	Los Angeles	.31
Minneapolis	.27½	Seattle	.28
San Francisco	.25	St. Louis	.26½
Atlanta	.30	Montreal	.35½
Denver	.30	Detroit	.26
Cincinnati	.37	Baltimore	.25½

EXPLOSIVES—Price per pound of dynamite in small lots and price per 25 lb. keg for black powder.

	Low Freezing	Gelatin			Black
	20%	40%	60%	80%	Powder
New York		$0.33½	$0.36½		$2.80
Boston	.265	.282	.322	$.352	
Kansas City	.2475	.27	.30	.34	2.40
Seattle	.18	.20½	.22½	.29½	2.60
Chicago	.2175	.2525	.2975	.34	2.45
Minneapolis	.2272	.2576	.2931		2.90
St. Louis	.25	.285	.315	35.75	2.60
Denver	.2250	.26	.29	33.25	2.80
Dallas	.265*	.275	.3025		2.60
Los Angeles	.22	.27	.31		2.95
Atlanta	.2575	.2925	.3225	.3650	
Baltimore	.2525	.2875	.3175	.36	2.10
Cincinnati	.2275	.2525	.2725		2.30
Montreal	.30	.32	.37	.38	4.10
New Orleans	.2650	.295	.325	.3925	2.90

* 30 Per Cent.

POLES—For spruce and plain pine poles, delivered New York, the price is as follows:

Spruce 10-in. butts, 5-in. tops, length 20-30 ft.	$8.50
Spruce 12-in. butts, 6-in. tops, length 30-40 ft.	10.50
Pine 12-in. butts, 6-in. tops, length 41-50 ft.	13.75
Pine 14-in. butts, 6-in. tops, length 51-60 ft.	22.50
Pine 14-in. butts, 6-in. tops, length 61-71 ft.	25.25

	Dallas
6-in. x 20-ft.	$4.60
6-in. x 30-ft.	7.10
8-in. x 30-ft.	8.45
8-in. x 35-ft.	10.38

OLD MATERIAL—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges.

	New York	Chicago	St. Louis
No. 1 railroad wrought	$20.00	$17.00	$17.00
Stove plate	19.50	21.50	19.00
No. 1 machinery cast	32.50	22.00	
Machine shop turnings	11.00	8.50	
Cast borings	14.50	11.00	8.00
Railroad malleable cast	20.00	20.00	17.00
Re-rolling rails	22.00		20.00
Relaying rails	50@55	40@45	40@45

SHIP SPIKES—Current prices per 100 lb.

	San Francisco		Seattle
In.	Galv.	Black	Black
½	$9.20	$8.50	$8.55
⅝	8.75	6.75	8.25
¾	8.60	6.60	8.30

Pittsburgh base, $4.75@$5.00 per 100 lb.

LABOR RATES AND CONDITIONS THROUGHOUT THE COUNTRY

S means scarce; E, enough; P, plentiful

Cities	Bricklayers	Carpenters	Hoisting Engineers	Hod Carriers	Pile Drivers	Structural Iron Workers	Common Labor	Remarks
Atlanta	$1.35E	$0.90E	$1.00E	$0.35E			$0.35E	Atlanta—Plenty of work.
Baltimore	1.00E	.80–90E	.87½E	.46–.54E	$0.74E	$1.00E	.35@.40E	Baltimore—Carpenters voted not to accept an advance from 90c. to $1 per per hour.
Boston	1@1.25P	1.00P	.90@1.00P	.70@.80P	.80@.90P	1.05@1.25P	.65@.70P	Boston—Labor supply plentiful.
Cincinnati	1.25S	.90E	.75E	.70E		.87½E	.60S	Cincinnati—Common labor scarce.
Chicago	1.25	1.25				1.25	1.00	Chicago—Labor plentiful but independent. Contractors report increased efficiency.
Cleveland	1.00S	.90S	1.00E	.57½E	.80E	1.00E	.57½E	Cleveland—Situation same as last month.
Dallas	1.25P	1.00P	1.00E	.60E	1.00E	1.25S	.50@1.00P	Dallas—All labor plentiful.
Denver	1.25E	1.16½E	1.16½@1.18½E	.75@81½E		1.15½E	.50@56.½	Denver—No strikes. Labor supply not excessive. Work going forward satisfactorily.
Detroit	1.25P	85@1.00P	1.10P	.70E	1.10P	1.25E	.50@.60E	Detroit—Labor plentiful in all trades. Not much building in immediate prospect. Work already under contract is going forward.
Kansas City	1.12½	1.00	1.00	.90	1.00	1.10	.75	Kansas City—We report no change since last month.
Los Angeles	1.25P	.87½P	.87½P	1.00P	.87½P	.87½P	.56½@.62½E	Los Angeles—Rates shown are union; non-union a little less; but union scale prevails generally.
Minneapolis	1.25	1.00P	1.00	.75		1.00	.60	Minneapolis—Considerable unemployment; common labor as low as 50c. Logging camps have taken up some of the excess labor due to close of the harvest season.
Montreal	.90	.85S	.65S	.50S	.55	.65	.47½S	Montreal—Common labor now plentiful.
New Orleans	1.00E	.95E	1.00E	.65E	1.00E	1.00E	.40S	New Orleans—Building trade stagnant, owing to high cost of labor and materials.
New York	1.25	1.12½	1.25	.87½	1.12½	1.12½	.75@.80	New York—Agreement of Nov. 20, 1919, was modified as shown, effective May 1, 1920. Excavators, 75c.; Concrete workers, 81½c.
Pittsburgh	1.50P	1.25P	1.12½P	1.00P	1.00P	1.25E	.80P	Pittsburgh—Conditions normal.
St. Louis	1.25E	1.25E	1.25E	.85E	1.00P	1.25E	.52@.75E	St. Louis—Hoisting engines receive $1.37½ on double hoist. Plaster hodcarriers receive 94½c. Labor situation easy in all building trades.
San Francisco	1.25E	1.12½E	1.12½E	1.00E	1.12½E	1.12½E	.81½E	San Francisco—Sufficient labor.
Seattle	1.25	1.00	1@1.12	.87	1.00	1.00	.75P	Seattle—Not much building construction in prospect.

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Dec. 6	New York, N. Y.	Dec. 2
Dec. 7	Saginaw, Mich.	Nov. 18
Dec. 7	Milwaukee, Wis.	Dec. 2
Dec. 15	Poughkeepsie, N. Y. Adv. Nov. 18 to Dec. 2.	Nov. 18
Dec. 15	Fall River, Mass.	Dec. 2
Jan. 10	Hartford, Conn. Adv. Nov. 25 and Dec. 2.	Dec. 2

SEWERS

Dec. 6	Little Falls, Minn.	Nov. 18
Dec. 6	St. George, S. I., N. Y.	Dec. 2
Dec. 7	Long Island City, N. Y.	Dec. 2
Dec. 8	Ossining, N. Y.	Nov. 18
Dec. 13	Euclid, O.	Dec. 2
Jan. 5	Lima, O. Adv. Dec. 2.	Dec. 2

BRIDGES

Dec. 7	Chapman, Kan.	Nov. 25
Dec. 7	Grand Rapids, Minn.	Nov. 18
Dec. 7	Grand Rapids, Minn.	Dec. 2
Dec. 8	Manning, S. C.	Nov. 25
Dec. 10	White Springs, Fla.	Nov. 18
Dec. 14	Winnipeg, Man.	Nov. 25
Dec. 14	Portsmouth, N. H.	Dec. 2
Dec. 17	Detroit, Mich.	Nov. 25
Dec. 17	Phila., Pa. Adv. Dec. 2.	Dec. 2
Dec. 18	Dayton, O. Adv. Dec. 2.	Dec. 2
Dec. 18	Racine, Wis.	Dec. 2
Dec. 21	Morgan, Ga.	Dec. 2
Dec. 22	Elizabeth, N. J. Adv. Dec. 2.	Dec. 2
Dec. 23	Detroit, Mich. Adv. Dec. 2.	Dec. 2
Jan. 6	Miami, Fla. Adv. Dec. 2.	Dec. 2
Jan. 7	Jacksonville, Fla.	Dec. 2
Feb. 7	Bainbridge, Ga	Nov. 25
Mar. 1	Ontario	Nov. 4

STREETS AND ROADS

Dec. 6	Indiana	Dec. 2
Dec. 6	Wisconsin	Dec. 2
Dec. 6	Wichita Falls, Tex.	Dec. 2
Dec. 7	Grand Rapids, Minn.	Nov. 18
Dec. 7	Indiana	Nov. 25
Dec. 7	Missouri	Nov. 25
Dec. 7	Maryland Adv. Dec. 2.	Dec. 2
Dec. 7	Indiana	Dec. 2
Dec. 7	Vienna, Ga.	Dec. 2
Dec. 7	Union City, Pa.	Dec. 2
Dec. 7	Wisconsin	Dec. 2
Dec. 8	Creston, Ia.	Nov. 25
Dec. 8	Belvidere, N. J. Adv. Nov. 18 to Dec. 2.	Nov. 18
Dec. 8	Marshalltown, Ia.	Dec. 2
Dec. 9	San Antonio, Tex.	Dec. 2
Dec. 10	Florida	Nov. 18
Dec. 10	Missouri	Nov. 25
Dec. 13	Bronxville (Yonkers P. O.) N. Y. Adv. Dec. 2.	Dec. 2
Dec. 13	Merced, Cal.	Dec. 2
Dec. 13	Childress, Tex.	Dec. 2
Dec. 13	Canadian, Tex.	Dec. 2
Dec. 13	El Paso, Tex.	Dec. 2
Dec. 15	Princeton, W. Va.	Dec. 2
Dec. 15	Des Moines, Ia.	Dec. 2
Dec. 21	New Mexico	Dec. 2
Jan. 2	Duluth, Minn.	Oct. 28
Jan. 5	Colorado Springs, Col.	Oct. 21
Jan. 10	Stockton, Kan.	Nov. 18
Mar. 1	Ontario	Dec. 2
Mar. 30	Westboro, Ont.	Nov. 11

EXCAVATION AND DREDGING

Dec. 7	Jefferson, Ia.	Dec. 2
Dec. 8	Creston, Ia.	Dec. 2
Dec. 15	Clarinda, Ia.	Nov. 25
Dec. 20	Wapello, Ia.	Dec. 2

RAILWAYS

Dec. 10	New York	Dec. 2

INDUSTRIAL WORKS

Dec. 6	Ridgefield, N. J.	Dec. 2
Dec. 8	Youngstown, O.	Dec. 2
Dec. 9	West Brownsville, Pa	Dec. 2

BUILDINGS

Bids Close		See Eng. News-Record
Dec. 6	Ossining, N. Y.	Oct. 21
Dec. 6	Atlantic City, N. J.	Nov. 11
Dec. 6	Brooklyn, N. Y.	Nov. 25
Dec. 6	Tulsa, Okla.	Dec. 2
Dec. 7	Detroit, Mich.	Nov. 25
Dec. 10	Brooklyn, N. Y.	Oct. 21
Dec. 13	Lakewood (Cleveland P. O.), O.	Nov. 25
Dec. 13	Cincinnati, O.	Dec. 2
Dec. 13	Detroit, Mich.	Dec. 2
Dec. 14	Hyde Park (Boston P. O.), Mass.	Nov. 25
Dec. 14	Storrs (Eagleville P. O.) Conn.	Nov. 25
Dec. 15	Frederic, Wis.	Nov. 18
Dec. 15	Clear Lake, Wis.	Nov. 18
Dec. 15	Pocahontas, Ia.	Nov. 25
Dec. 15	Wabash, Ind.	Nov. 25
Dec. 15	Bethlehem, Pa	Dec. 2
Dec. 15	Chicago, Ill.	Dec. 2
Dec. 15	Cloquet, Minn.	Dec. 2
Dec. 18	Brainerd, Minn.	Dec. 2
Dec. 21	Detroit, Mich.	Nov. 25
Dec. 21	Cleveland Heights (Warrensville P. O.), O.	Dec. 2
Jan. 1	Marietta, O.	Nov. 25
Jan. 1	Chicago, Ill.	Nov. 18
Jan. 1	Little Rock, Ark.	Nov. 25
Jan. 1	Chicago, Ill.	Nov. 25
Jan. 1	Springfield, Mo.	Dec. 2
Jan. 2	Duluth, Minn.	Oct. 21
Jan. 2	Duluth, Minn.	Nov. 25
Jan. 2	Duluth, Minn.	Oct. 28
Jan. 2	Cortland, N. Y.	Oct. 21
Jan. 2	Hibbing, Minn.	Nov. 4
Jan. 2	Aitkin, Minn.	Nov. 11
Jan. 2	Webster, Wis	Nov. 11
Jan. 2	Jamestown, N. D	Dec. 2
Jan. 4	Greeley, Col.	Nov. 25
Jan. 4	Emporia, Kan.	Dec. 2
Jan. 4	Union Grove, Wis.	Dec. 2
Jan. 19	Buffalo, N. Y. Adv. Dec. 2.	Dec. 2
Feb. 15	El Paso, Tex.	Dec. 9
Mar. 1	Duluth, Minn.	Dec. 2

FEDERAL GOVERNMENT WORK

Dec. 6	Mailing Vestibule, etc. — Spartansburg, S. C.	Nov. 18
Dec. 6	Smoke Stack—Washington, D. C.	Nov. 25
Dec. 8	Remodeling Post Office — Kalamazoo, Mich.	Nov. 25
Dec. 9	Surface Drainage System —Galveston, Tex.	Nov. 18
Dec. 10	Mailing Vestibule—Battle Creek, Mich.	Nov. 25
Dec. 10	Roofing and Repainting—Phila., Pa.	Nov. 25
Dec. 15	Radio Building—Port Arthur, Tex.	Nov. 25
Dec. 15	Hydraulic Turbine—Florence, Ala. Adv. Nov. 18 to Dec. 2.	Nov. 25
Dec. 15	Gate and Valve Operating Machinery—Louisville, Ky. Adv. Nov. 18 to Dec. 2.	Nov. 25
Dec. 16	Alterations, Repairs, Plumbing, etc.—Covington, Ky.	Nov. 25
Dec. 20	Steel Dump Scows—Louisville, Ky.	Nov. 18
Dec. 20	Refrigeration Building — Columbus, Ga. Adv. Dec. 2.	Dec. 2
Dec. 22	Electric Towing Locomotive —Washington, D. C. Adv. Dec. 2.	Dec. 2

MISCELLANEOUS

Dec. 7	Brass Strainers, etc—Phila. Pa.	Dec. 2
Dec. 9	Pier Fender, etc.—New York N. Y.	Dec. 2
Dec. 9	Ferryboat — New York, N. Y.	Dec. 2
Dec. 9	Equipment — New York, N. Y.	Dec. 2
Dec. 10	Water Tube, Boilers and Equipment — Milwaukee, Wis. Adv. Nov. 18 to Dec. 2.	Nov. 25
Dec. 13	Paving Materials—Minneapolis, Minn.	Dec. 2
Dec. 14	Dock Wall—Buffalo, N. Y. Adv. Nov. 18 to Dec. 2.	Nov. 18
Dec. 14	Incinerator—Long Branch, N. J. Adv. Dec. 2.	Dec. 2
Dec. 14	Wire—New Orleans, La. Adv. Nov. 25 and Dec. 2.	Dec. 2
Dec. 15	Laundry Equipment—Hudson, N. Y. Adv. Dec. 2.	Dec. 2
Dec. 15	Laundry Equipment—Brooklyn, N. Y.	Dec. 2
Dec. 17	Water Tube, Boilers and Equipment — Milwaukee, Wis. Adv. Dec. 2.	Dec. 2
Dec. 21	Foundations—Phila., Pa. Adv. Dec. 2.	Dec. 2
Jan. 10	Filter Sand — Hartford, Conn. Adv. Dec. 2.	Dec. 2
Jan. 11	Motors and Pumps—Sacramento, Cal.	Dec. 2
Jan. 26	Wall—Chesterville, Ont.	Nov. 25

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Groveland (Haverhill P. O.)—Town plans to build water mains in various streets. Cost to exceed $10,000. A. J. Wales, clk. Private plans.

N. C., Burlington—City plans to expend $25,000 for waterworks system. M. W. McPherson, clk.

N. C., Raleigh—City plans to issue $50,000 bonds to extend waterworks system. J. B. Bray, comr pub. wks.

N. C., Wilson—Town plans to issue $32,500 bonds to extend waterworks system. T. A. Hinnant, clk.

N. C., Zebulon—City plans to expend $60,000 to improve waterworks and sewerage systems. M. B. Humphrey, mayor.

Mich. Owosso—City Comn. sold $58,000 bonds to build extensions to watermains.

Ill., Elgin—City election in January to vote on $150,000 bonds to improve waterworks system, to include sinking 2 or 3 wells. H. L. Zook, clk.

Ill., Hanover—City receives bids about Feb. 1, improving waterworks system, to include deep well, pump house, pump, elevated tank and water distribution system. About $30,000. Holland, Ackerman & Holland, Ann Arbor, Mich, consult. engrs.

Wis., Park Falls—City plans to lay 2 mi. water mains and install new pumping equipment. About $50,000. R. T. Fritz, city clk. Probably private plans.

Wis., Racine—City plans to improve and build extensions to waterworks system. About $1,936,000. P. H. Connolly, city engr. Noted Oct. 28.

Minn., Annandale—See "Sewers."

Minn., Rush City—City had plans prepared by Druar & Milinowski, engrs., 512 Globe Bldg., St. Paul, and soon receives bids building waterworks system, involving 25,000 ft. 4-8 in. c.i. or wood stave pipe. About $60,000. J. F. Sommer, clk.

Minn., Sauk Center—City plans election soon to vote on $60,000 bonds to improve waterworks system. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, engrs.

Okla., Sapulpa—City having plans prepared for waterworks system to include new supply system, dam, reservoir filters, basins, force main, distributing reservoirs, etc. Holway Eng. Co., 230 Lynch Bldg., Tulsa, engrs.

Ont., Brockville—Provincial Bd. Health, Toronto, authorized construction of filtration plant, here. About $50,000.

Ont., Ottawa—City plans to expend $100,000 for extending water mains in various streets and $40,000 for purchasing and installing water meters. A. F. Macallum, city engr.

Ont., Port Credit—Municipal Council soon receives bids building waterworks system. About $150,000.

Ont., Richmond Hill—City having plans prepared by E. A. James Co. Ltd., engrs., 36 Toronto St., Toronto, for complete waterworks system, consisting of wells, centrifugal pumps, pumphouse, reservoir, and distribution system, involving 10,000 ft. 6-12 in. c.i. pipe. About $95,000.

Ont., Shelburne—Town plans to extend waterworks system, to include distributing system, centrifugal pumps, pump house and 10,000 ft. 6 in. c.i. pipe. About $100,000. E. A. James Co., 36 Toronto St., Toronto, engrs.

Ont., Smiths Falls—Town Council soon receives bids building new filtration plant. About $15,000. J. A. Lewis, clk.

Waterworks (Continued)

BIDS DESIRED

Mass., Fall River—Until Dec. 15, by Quequechan River Comn., City Hall, building sand bar dam, foundation for pumping station and dredging. Contr. A; superstructure of sand bar pumping station, including lighting, plumbing and heating equipment. Contr. B; equipment and piping for sand bar pumping station, Contr. C. H. K. Barrows, 6 Beacon St., Boston, engr.

Conn., Hartford—Until Jan. 10, by Bd. Water Comrs., Municipal Bldg., furnishing approximately 21,000 cu.yd. filter sand and placing 12,000 cu.yd. filter sand in filter beds. C. M. Saville, Pilgard Bldg., 1026 Main St., ch. engr.; advertised in this issue.

N. Y., New York—Until Dec. 6, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Room 2351, Municipal Bldg., furnishing, delivering and installing additional discharge lines at 179th St. Pumping Sta. Noted Oct. 7.

O., Euclid—Until Dec. 13, by village, laying vitr. and c.i. water mains and building storm and sanitary sewers in Oakhill Dr. from Glenbrook Blvd. to westerly end, Hawthorne Dr. from Beverley Hills subdivision to easterly line, Yosemite Dr. from Beverley Hills Dr. to northerly line, Idlehurst Dr. from Chatworth to Argyle Drs., Argyle Dr. from Beverley Hills Dr. to center line, Beverley Hills Dr. from Euclid Ave. to Argyle Dr., cost $60,000; Chatworth Dr. from Glennbrook Blvd. to Beverley Hills allotment, Glennbrook Blvd. from Beverley Hills allotment to easterly line, Mallard Ave. from Upson to Hardwick Rds. and Shoreview Ave. from Upson to Harwick Rds. F. A. Pease Eng. Co., 804 Marshall Bldg., engrs.

Wis., Milwaukee—Until Dec. 7, by Comr. Pub. Wks., furnishing 2 circular sluice gates for Linwood Ave. water tunnel. Cost $4,000 each. Noted Oct. 14.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Ind., South Bend—Bd. Water Comrs. received bids, Nov. 17, furnishing labor and material and installating c.i. suction and discharge mains etc., for new Central Pumping Sta., from Paschen Bros., 11 West Washington St., Chicago, $140,420; J. V. McGovern, Chicago, $155,174; Natl. Heating Co. 119 East Monroe St., South Bend, $174,196. Noted Oct. 21.

★**Mich., Oxford**—City let contract improving waterworks system, to Gangl Constr. Co., 737 2d Natl. Bldg., Akron, O. About $29,000. Noted Oct. 21.

★**Mich., River Rouge**—Village let contract furnishing labor and material for building watermain extensions, involving 13,610 ft. 6-12 in. c.i. pipe, 20 fire hydrants, valves, connections, etc., to L. C. Clancy, c/o G. Jerome, 1331 Majestic Bldg., Detroit. About $60,000; cost plus percentage basis. Noted Oct. 21.

Kan., Liberal—City let contract building 2 centrifugal pumps, to Amer. Well Wks., 319 Reliance Bldg., Kansas City, Mo., $20,300.

Sewers

PROPOSED WORK

Pa., Susquehanna — See "Streets and Roads."

N. C., Raleigh—City plans to issue $100,000 bonds to build 6¾ mi. sewers. J. B. Bray, comr. pub. wks.

N. C., Wilson—Town plans to issue $32,500 bonds to extend sewerage system. T. A. Hinnant, clk.

Tenn., Manchester—Town will sell $45,000 bonds Dec. 20, to improve waterworks.

Tenn., Nashville—City plans to build sewers in various streets. About $200,000. W. W. Southgate, city engr.

O., Cincinnati—City plans to build sewers in 71st St. and Willard Ave. About $40,000. F. Krug, City Hall, engr.

O., Dayton—Montgomery Co. plans to build storm and sanitary sewers in various streets and alleys in Fairview Sewer Dist. 1, involving 20,000 ft. 6-24 in. vitr. pipe, and 3,000 cu. yd. earth trenching. About $85,000. K. B. Allen, U. B. Bldg., engr.

Mich., Detroit—City had plans prepared for Lateral Sewer 3,264 between Fairview, Engel, Marsh and Edlie Sts., 3,389 between Linwood, LaSalle and Tuxedo Sts., 3,390 between Mitchell, McDougal, Carpenter and Davison Sts., 3,395 between Jos. Campau, Mackay and Davison Sts. and Six Mile Rd., 3,396 between Lawton, Linwood, Beuna Vista and Tyler Aves., involving 15,677 ft. 12-33 in. brick and vitr. crock, etc. C. W. Hubbell, city engr.

Mich., River Rouge—Village having plans prepared by G. Jerome, engr., 1329 Majestic Bldg., Detroit, for sump for sewerage system, involving 1,450 cu.yd. excav., 280 cu.yd. rein.-con. and 10½ ton reinforcing steel. About $15,000.

Minn., Annandale—G. G. Shierts, city clk., receives bids about Jan. 15, building sewerage and waterworks systems. About $40,000. Druar & Milinowski, 512 Globe Bldg., St. Paul, engrs.

Minn., West St. Paul (St. Paul P.O.) City having plans prepared by J. E. Carroll, engr., 1682 Lincoln Ave., St. Paul, and O. Claussen, engr., 469 Laurel Ave., St. Paul, and will probably receive bids in February for 5 mi. sanitary sewerage system. Works involves 9-12 in. pipe. About $80,000.

Tex., Beaumont—City plans election to vote on $200,000 bonds to build sewers. G. J. Roark, city mgr.

Okla., Bartlesville—City plans to build sanitary sewerage system and sewage disposal plant, in western section of city, involving 68,000 ft. vitr. clay pipe. About $200,000. E. D. Kirkpatrick, Bartlesville, engr.

Ont., Eastview—Town plans to build sanitary sewerage system, involving 5,000 ft. 6-15 in. vitr. tile pipe. About $20,000. Patterson & Byrne, 71½ Sparks St., Ottawa, engrs.

Ont., Ottawa—City plans to build relief sewer from point at or near Pinard St., thence across Rideau River to junction with main sewer at or near Dufferin Rd. About $20,000. A. F. Macallum, city engr.

BIDS DESIRED

N. Y., Long Island City—Until Dec. 7, by M. E. Connolly, pres Queens Boro., Queens Subway Bldg., Hunterspoint Ave., constructing sewer and appurtenances in South St. from Long Island R.R. to Rockaway Turnpike and in Rockaway Turnpike from South St. to Lincoln Ave.; receiving basin and appurtenances on northerly corner of Elmhurst Ave. and Hampton St.

N. Y., S. I. St. George—Until Dec. 6, by C. D. Van Name, pres. Richmond Boro., building temporary sanitary outlet sewer in Cromwell Ave. from point 130 ft. north of mean high water line to point 80 ft. north of pier head line.

O., Lima—Until Jan. 5, by E. McClain, dir. Pub. Serv., building relief trunk sewers. Contrs. 3 and 4, also lateral relief sewers. Contrs. 5 6 and 7. B. F. Darling, superv. engr.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Bridgeport**—City let contract furnishing and installing machinery and equipment in sewage disposal plant on Harborview Ave., Black Rock Sta., to Sanitation Co., 50 Church St., New York City, $19,500.

★**N. J., Paterson**—Passaic Valley Sewerage Comn., 128 Market St., Newark, let contract for earth excav. and refilling in trench for 16 in. c.i pipe, for portion of Sect. 21 North Prospect St. Branch Sewer, to Arnolt-More Co., 45 Clinton St., Newark, $12,464. Noted Nov. 25.

Mich., Detroit—City received bids furnishing labor and material building Michigan Ave. sewer from Lonyo Rd. to Westfield Ave., from J. A. Mercier, 206 Hammond Bldg., $62,911; W. Blanck & Co., 827 Ford Bldg., $63,118; Detroit Drainage Constr. Co., Penobscot Bldg., $68,767. Noted Nov. 25.

★**Mich., Detroit**—City let contract to Western Constr. Co., 1208 Ford Bldg., furnishing labor and material for building Lateral Sewers 3,300 and 3,314, $35,361 and $29,990 respectively; to Lennane & McIlvenna, 1206 Book Bldg., 3,377, 3,385 and 3,386, $11,000, $5,750 and $3,750 respectively. Noted Nov. 25.

★**Mich., Detroit**—City let contract building 3rd Ave. Sewer, Sects. 4 and 5, to J. A. Mercier, 206 Hammond Bldg., $231,975 and $127,572 respectively. Noted Nov. 25.

★**Wis., Beaver Dam**—City let contract excavating and laying sanitary and storm sewers in Chatham and Main Sts., involving 2,100 ft. 6-12 in. vitr. pipe, to Brogan & Burns, East Main St., Green Bay. About $22,000.

★**Okla., Miami**—City let contract building outfall sewer and sewerage disposal plant, involving 1,200 ft. 4-24 in. vitr. pipe, 4,750 cu.yd. earth and 650 cu.yd. rock trenching, etc., to J. S. Shoe, City Hall. About $141,000. Noted Oct. 21.

★**Wash., Seattle**—City let contract building sewers and grading Juneau St. et al., involving 13,000 cu.yd. earthwork, 1,450 lin. ft. 8 in. clay pipe, seventy-three 6 in. wyes, to Hanson & Hauge, Green Bldg., $32,354.

★**Ont., Port Dalhousie**—Town let contracts building complete sewerage system as follows: 8,000 ft. 8-15 in. vitr. tile pipe, to Clay Products Agency, 8 Colbourne St., Toronto; laying same, to R. M. Smith, 58 Howard St., Toronto; manhole covers, to Drummond McCall, 373 Front St. E., Toronto. Total cost, $45,000. Noted April 15.

Bridges

PROPOSED WORK

O., Youngstown—City receives bids early in spring, building 350 to 400 ft. rein.-con. and steel bridge, 60 ft. wide, on Belmont Ave. About $450,000. G. F. Turner, City Hall, engr.

Minn., Hammond—Wabasha Co. (Wabasha) had plans prepared by C. M. Matthies, engr., Wabasha, for Bridge 3471 over Zumbro River, to have two 120 ft. steel spans, two 30 ft. approaches, 18 ft. roadway. About $35,000.

Minn., Theilman—G. J. Ginther, aud. Wabasha Co., (Wabasha) receives bids in February, to have one 100 ft. steel span, 18 ft. roadway, concrete foundation and flooring. About $25,000. C. M. Matthies, Wabasha, engr.

Wis., Prescott—Prescott Bridge Co. plans to build 450 ft. concrete and steel toll bridge, 18 ft. wide, over St. Croix River, to have rolling lift span. About $125,000. H. Fiedler, pres. Engineer not selected.

Wis., Sauk City—Sauk Co. plans to build 1,000 ft. bridge, 20 ft. wide, over Wisconsin River, to have steel superstructure and concrete substructure. About $210,000. Engineer not selected.

Tex., Corpus Christi—Nueces Co. soon receives bids building 1.65 mi. concrete and timber causeway, 18 and 20 ft. wide, over Nueces Bay. Work involves 34,760 lin.ft. wooden piling, 12,590 lin.ft. concrete piling, 1,472 sq.yd. bituminous macadam, 4,367 sq. yd. asphaltic concrete, 836,958 ft. untreated lumber, 35,150 ft. 12 lb. and 1,248 ft. 24 lb. treated lumber, 339,230 lb. reinforcing steel, 3,423.2 cu.yd. Class "A" and 154.3 cu.yd. Class "B" concrete, etc. About $405,552; including 10% for engineering and contingencies. O. N. Powell, co. engr. Noted Nov. 18.

BIDS DESIRED

N. H., Portsmouth—Until Dec. 14, by Piscataqua River Bridge Comn, City Hall, building superstructure for bridge over Piscataqua River between here and Kittery, Me. Former bids rejected. Private plans. Noted Sept. 23.

N. J., Elizabeth—Until Dec. 22, by Bd. Freeholders Union Co., Court House, building new lift Strauss Trunnion bascule type bridge, over Elizabeth River, South Front St. J. L. Bauer, co. engr.; advertised in this issue. Noted March 4.

Pa., Phila.—Until Dec. 17, by Joint Interstate Delaware River Bridge Comn., Room 1140, Widener Bldg., making test borings at proposed sites of bridge to be constructed over Delaware River between here and Camden. R. Modjeski, chn. Bd. Engrs.; advertised in this issue. Noted Sept. 30, under "Camden."

Ga., Morgan—Until Dec. 21, by Bd. Comrs. Rds. & Revenues, Calhoun Co., Court House, furnishing labor and material building 5 rein.-con. bridges and 1 rein.-con. slab top culvert, on Federal Aid Project 171, State Aid Project S-2-8, Morgan-Edison Rd., Route 37, involving 473.52 cu.yd. Class "A", 147.9 cu.yd. Class "B" and 28.68 cu.yd. Class "C" concrete, 73,094 lb. reinforcing steel, 760 sq.yd. rock asphalt, etc. R. H. Bostwick, chn.

Fla., Miami—Until Jan. 6, (change of date) by city, building double leaf steel bascule span bridge over Miami River on Avenue G. C. W. Murray, city engr Harrington, Howard & Ash, Jacksonville, consult. engrs; advertised in this issue.

O., Dayton—Until Dec. 18, by Comrs. Montgomery Co. building steel superstructure for Bridge No. 10½ over Miami River, Harrison Twp. About $150,000. P. S. Bookwalter, co. surv.

Mich., Detroit—Until Dec. 23, by Dept. Pub. Wks., removing present iron truss bridge and fabricating and erecting steel part of superstructure of proposed bridge over Michigan Central R.R. tracks, on Howard St. J. A. Martin, comr.; advertised in this issue. Noted Nov. 25.

Minn., Grand Rapids—Until Dec. 7, by T. Erskine, aud. Itasca Co. building 6 concrete bridges on State Rd. 9, Bridges 3359,

Bridges (Continued)

3362 and 3363, 20 x 20 ft. slabs, Bridge 3358, 30 x 20 ft. through girder, Bridge 3361, 40 x 20 ft. deck girder. About $30,000. H. A. LeSueur, Grand Rapids, engr.

Wis., Racine—Until Dec. 18, by Bd. Pub. Wks., building 343 ft. steel bridge, with concrete abutments, on State St. About $350,000. Strauss Bascule Bridge Co., 194 South Michigan Ave., Chicago, engr. Noted Nov. 11.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★N. H., Portsmouth—Piscataqua River Comn., City Hall, let contract building substructure for bridge over Piscataqua River between here and Kittery, Me., to Holbrook, Cabot & Rollins Corp., 6 Beacon St., Boston. About $830,000. Noted Sept. 23.

★Ga., Chatsworth—Murray Co. let contract building bridge over Rock Creek, about 6 mi. from here, also constructing 10,000 yd. approach work, to Luten Bridge Co., 59 Stokes Ave., Atlanta. About $25,000.

North Carolina—State Highway Comn., Raleigh, received bids building (1) bridge on Federal Aid Project 93, Franklin Co., involving 1,147 cu.yd. Class A concrete, 130,990 lb. reinforcing steel, 1,780 lb. expansion plates and bolts, etc., (2) bridge on Federal Aid Project 48-B, Northampton Co., 250 cu.yd. Class A concrete, 28,710 lb. reinforcing steel, 810 lb. plates and bolts, etc., from Stern Bros., Statesville, (1) $63,486, (2) $14,297; Luten Bridge Co., 405 East 4th Ave., Knoxville, Tenn., (1) $68,362, (2) $14,897; Porter & Boyd Realty Bldg., Charlotte, (1) $69,046, (2) $12,745. Noted Oct. 28.

★Michigan—State Highway Dept., Lansing, let contract building Bridges 611, 102, 611, 103 and 610, 201, on Federal Aid Rd. 43, Muskegon Co., each 35 ft. long with 20 ft. roadway, to Hilding & Rabe Co., Grand Rapids, $19,489. Noted Nov. 4.

Ia., Manchester—Delaware Co. received bids Nov. 18, building rein.-con. arch bridge, to have two 87 ft. spans, 26 ft. roadway and two 5 ft. sidewalks, involving 1,402 cu.yd. rein.-con. and 50.7 ton steel, from Miller-Fifield Constr. Co., L. & J. Bank Bldg., Waterloo, $43,988; Widell Co., 1st Natl. Bank Bldg., Mankato, Minn., $44,890; F. E. Marsh & Co., Jefferson, $45,500. Noted Oct. 28.

Tex., F. Worth—Tarrant Co. receives bids Nov. 18, building bridge, to have 2 steel spans and abutments on concrete piers, on Lake Worth Rd., from C. T. Hodge, Ft. Worth, cost plus 15 per cent; Austin Bros., 1815 Coombs St., Dallas; Illinois Steel Bridge Co., Laclede Gas Bldg., St. Louis, Mo. Engineers estimates, $60,000. Noted Nov. 11.

Streets and Roads

PROPOSED WORK

Vermont—State Highway Dept., Montpelier, plans to improve state road through town of Guilford to state line of Massachusetts. Cost between $60,000 and $65,000.

Massachusetts—State Dept. Pub. Wks. Div. Highways, Boston, soon lets contract paving 7,500 ft. state highway, Westfield, bituminous macadam.

N. Y., New York—H. H. Curran, pres. Manhattan Boro., rejected bids received Nov. 3, regulating and repaving Chambers and Canal Sts. Noted Nov. 11.

N. Y., New York—H. H. Curran, pres. Manhattan Boro., rejected bids received Nov. 4, regulating and repaving West 54th St. from 7th to 9th Aves. Noted Nov. 11.

N. Y., New York—H. H. Curran, pres. Manhattan Boro., rejected bids received Nov. 18, regulating and repaving West End Ave. and 33d St. Noted Nov. 11.

N. J., Freehold—Monmouth Co. election Dec. 21, to vote on $440,000 bonds to pave 4 mi. Ocean Ave. from Long Branch to Deal. G. D. Cooper, Broad St., Red Bank, engr.

Pennsylvania — State Highway Dept., Harrisburg, rejected bids received Oct. 13, improving Route 142, Dowington Boro., Chester Co. Noted Oct. 21.

Pa., Susquehanna—City election Jan. 12, to vote on $80,000 bonds to pave and build sewers in various streets. A. I. Baybss, secy.

North Carolina—State Highway Comn., Raleigh, had plans prepared and soon receives bids paving 1½ mi. road fom bridge over Richardsons Creek via Monroe to Bentons Heights (omitting section through Monroe), 16 ft. wide, 2 in. Topeka surface on 5 in. plain cement base and header course, Federal Aid Project 39, Union Co. About $50,000. W. S. Fallis, state highway engr.

North Carolina—State Highway Comn., Raleigh, plans to improve road from a point 2 mi. west of Carthage to Moore-Lee Co. line, Federal Aid Project 98 B, 26 ft. wide, Moore Co., involving 17 acres clearing and grubbing, 35,630 cu.yd. common excav., 23,100 cu.yd. topsoiling, 915 ft. 15-30 in. terra cotta pipe, 50 cu.yd. Class B headwalls, etc., cost $52,600; 4½ mi. road beginning at Moore Co. line and running north east, Federal Aid Project 98 C, 26 ft. wide, Lee Co., 13 acres clearing and grubbing, 19,070 cu.yd. common excav., 12,000 cd.yd. top soiling, 640 ft. 15-24 in. terra cotta pipe, 35 cu.yd. Class B concrete headwalls, etc., $27,000; 5.8 mi. road between Durham and Wake Co. line, Federal Aid Project 122, 16 ft. wide, Durham Co., 8 acres clearing and grubbing, 13,200 cu.yd. common excav., 312 ft. 15-24 in. terra cotta pipe, 56 cu.yd. Class B concrete headwalls, 54,510 sq.yd. combination cement concrete header and base course 51,100 sq. yd. bituminous surface, etc., $150,000. W. S. Fallis, state highway engr.

N. C., Fayetteville—City plans to issue $80,000 bonds to pave various streets.

N. C., Marion—McDowell Co. plans to issue $150,000 bonds to improve, drain, and build various roads and bridges. H. F. Little, chn. highway comn.

N. C., Wentworth—Rockingham Co. plans to issue $200,000 bonds to build and improve various roads. H. K. Penn, clk.

South Carolina—State Highway Comn., Columbia, plans to build 10.16 mi. sand clay road from Fairfax to Bamberg Co. line, Federal Aid Project 41, Allendale Co. C. H. Moorefield, state highway engr.

S. C., Columbia—City voted $300,000 bonds to improve various streets.

Tenn., Columbia—Maury Co. voted $300,000 bonds to complete Jackson Military Highway from here to Lawrence Co. line and to build other state and federal aid highways.

O., Cincinnati—Bd. Park Comrs. soon let contract resurfacing 30,000 sq.ft. Bloody Run Parkway, north of Gilbert Ave., 40 ft. wide, bitulithic. C. H. Meeds, care of Bd. Park Comrs., engr.

O., Cleveland—City plans to drain, grade, curb and pave with brick on concrete base Ottawa Rd. between East 71st St. and Harvard Ave., cost $36,020; Lamontier Ave. between Woodhill Rd. and East Blvd., $76,108. R. Hoffman, 618 City Hall, engr.

O., Cleveland—City receives bids in spring, grading, draining, curbing and paving with brick on concrete base Thames Ave. between East 152d and East 140th Sts., cost $67,600; Indiana Ave. between Ottowa Rd. and East 71st St., $23,172; Mt. Auburn Ave. between Woodhill Rd. and East Blvd., $82,597. R. Hoffman, 618 City Hall, engr.

O., Columbus—City plans to pave and widen 5,750 ft. 3rd St. from Livingston Ave. to Naghten St., 45 ft. wide, asphalt.

Wis., Appleton—Outagamie Co. appropriated following sums for road construction: $30,000 to meet state and federal aid on Project 232, Trunk Highway 18; $16,333, Project 231, Trunk Highway 54; $12,000, filling gap on Shicton-Shawano Rd.; $45,000, Appleton-Seymour Rd., commencing at south end of present concrete, 7 mi. south of Seymour and thence southerly and westerly; $19,000, additional work on Bear Creek-New London Rd.; $45,000, Greenville-Shicton Rd., commencing at concrete and continuing north through Greenville and Greenville Sta.; $22,500, Little Chute Hill on Appleton-Kaukauna Rd., Trunk Highway 15. A. G. Brusewitz, comr.

Wis., Fond du Lac—Bd. Supervs. Fond du Lac Co. plans to build following roads during 1921: Highway 15, cost $258,008. Highway 23 from west of Ripon to county line, $68,683, Eden-Campbellsport Rd., $88,683, Fond du Lac-Milwaukee Rd., in Byron, $100,000, Taycheedah from end of present pavement to Peebles, $81,000, bridges in Waucousta, etc., $13,500.

Wis., Madison—Dane Co. voted $179,000 bonds to gravel State Trunk Highways. F. M. Lipke, comr.

Wis., Oshkosh—Winnebago Co. appropriated $15,280 to build concrete highway at south end of Jackson St. Rd. north of here; $15,000 to maintain State Trunk Highway System; $21,130, to build Winneconne-Borth Rd. beginning where 1920 improvement leaves off and extending to macadam road. J. Binning, comr.

Wis., Racine—Racine Co. voted bonds to grade, pave and build culverts in following towns: $90,000, in Rochester and Waterford; $157,000, Raymond; $112,000, Mt. Pleasant; $35,000, Burlington; $10[illegible], 12th St. Rd. at Rochester and extending easterly. W. O. Thoma, comr.

Wis., Superior—Douglas Co. plans to surface 2 mi. Trunk Highway 10, 4 mi. Trunk Highway 11, cost, $30,000, and 3½ mi. Union St., $110,000, all concrete; gravel surface 17 mi. Trunk Highway 10, $70,000, 1 mi. Trunk Highway 11, $3,000, 9 mi. Trunk Highway 11, $90,000, 2¼ mi. Trunk Highway 11, $15,000, 7 mi. Lakeside Rd., $[illegible],000, 2 mi. Lakeside Rd., $4,000, 2 mi. Brule-Highland Rd., $12,000, 9 mi. Brule-Highland Rd., $26,000, 3½ mi. Spaulding Ave., $23,000, 1 mi. Rossiter Ave., $5,000, 2 mi. Nebagamon-Black River Rd., $8,000, 2½ mi. Nebagamon-Black River Rd., $11,500, 2 mi. Winnebojou cutoff, $30,000, 4 mi. Winnebojou cutoff, $20,000 and 11 mi. Borea Rd., $44,000; grading 5½ mi. Trunk Highway 35, $32,000, 16½ mi. Moose Rd., $25,000 and 13½ mi. Nebagamon-Black River Rd., $50,000. C. D. Conkey, Jr., comr.

Wis., Waukesha — Waukesha Co. appropriated following sums for road construction: $386,458 improving Highway 19 Pewaukee west, concrete; $134,600 Janesville Plank Rd., New Berlin and Muskego, 18 ft. wide, concrete; $90,000 Highway 99 northeast from here, 16 ft., concrete; $50,000 Highway 61, Mukwonago Rd., 16 ft., concrete; $100,000 Highway 59, Waukesha-Genesee Rd., 18 ft., concrete; $11,000 additional work on Project 179; $25,000 Jericho-North Prairie Rd., from Highway 99 northwest, 18 ft., gravel and culverts; $7,000 North Lake south, 18 ft., gravel; $20,000 Dousman-Palmyra Rd., southwest from Highway 67, Ottawa Twp., 18 ft., gravel; $20,000, Oconomowoc-Merton Rd. from Bond Issue Rd. 19, 16 ft., gravel; $16,000 road Summit Twp., 16 ft., gravel; $47,000 Highway 19, 18 ft., concrete. C. J. Hahn, Court House, comr.

Wis., Waupun—City having plans prepared paving, curbing and guttering Main St., 20 ft. wide, involving 45,000 sq.yd. concrete paving and 9 mi. combined concrete curb and gutter. About $200,000. Parsons & Orbert, M. & M. Bank Bldg., Milwaukee, engrs.

Ia., Sibley—City plans to pave, curb and gutter various streets, asphaltic concrete, vitr. brick and sheet asphalt on concrete base. Cost to exceed $30,000. W. L. Fayey, Spencer, engr.

South Dakota—State Highway Comn., Pierre, plans to grade, drain and gravel, also build bridges on 11.8 mi.; Custa-Hermasa-Rapid City Rd., 36 ft. wide, Federal Aid Project 70; Custer Co., involving 120,800 cu.yd. excav., 2,500 cu.yd. graveling, 1,856 ft. of corrugated iron or concrete pipe culverts, 1,187 cu.yd. concrete, 72,000 lb. reinforcing and 61,000 lb. structural steel, etc. About $169,000. F. W. Schreiber, state highway engr.

Missouri—State Highway Dept., Jefferson City plans to build 3.57 mi state road north of Kingston, 24 ft. wide, State Aid Project S 20.22, Caldwell Co., cost $22,176; 2.85 mi. state road north of Bowling Green, 24 ft. wide, State Aid Project S 20.21, Pike Co., $35,000; 1.04 mi. East and West State Rd. east of Grant City, 24 ft. wide, State Aid Project S 20.20, Worth Co., $34,700; 1.7 mi. East and West State Rd., west of Warrensburg, 24 ft. wide, State Aid Project S 20.19, Johnson Co., $22,900; 3.19 mi. state road, north of Warsaw, 24 ft. wide, State Aid Project S 20.16, Benton Co.

Mo., St. Louis—City plans to pave and grade 1,720 ft. Natural Bridge Rd. from Clara to Goodfellow Aves., involving 11,500 sq.yd. vitr. brick. About $83,200. W. W. Horner, City Hall, engr.

Tex., Beaumont—City plans election to vote on $350,000 bonds to pave streets. G. J. Roark, city mgr.

Tex., Cameron—Milam Co. having plans prepared grading, surfacing and draining 18.86 mi. Highway 36 through Rd. Dists. 2 and 29, involving 34 acres clearing and grubbing, 40,000 cu.yd. borrow excav., 600 cu.yd. 1:2:4 concrete, 44,000 cu.yd. gravel surfacing, 28,000 lb. reinforcing steel and 10,000 cu.yd. stripping gravel pits. About $124,564. A. F. Mitchell, co. engr.

Tex., Cleburne—Johnson Co. having plans prepared grading, surfacing and building rein.-con and steel bridges on 12 mi. Highway 2-A from Alvarado to Hill Co., involving 3 acres clearing and grubbing, 6,400 cu.yd. earth, 400 cu.yd. solid and 400 cu.yd loose rock excav., 112,544 sq.yd. bituminous macadam, 67,000 cu.yd. embankment, 37,560 cu.yd. gravel, 146,400 lb. reinforcing and 115,800 lb. structural steel, 1,420 cu.yd.

Streets and Roads (Continued)

Class "A," 300 cu.yd. 1:2:3 and 400 cu.yd. 1:2½:5 concrete. About $333,954. Whiteaker & Washington, co. engrs.

Tex., Ft. Davis—Jeff Davis Co. having plans prepared grading, surfacing and draining 7.216 mi. Highway 1, from point 1 mi. east of Culberson Co. to Reeves Co., involving 15 acres clearing and grubbing, 1,477 cu.yd. borrow and 22,044 cu.yd. earth excav., 2,774 cu.yd. gravel surfacing, 6,450 lb. reinforcing steel, 356.8 cu.yd. 1:2:3 and 32.5 cu.yd. Class "B" concrete. About $25,000. A. L. White, Van Horn, engr.

Tex., Groveton—Trinity Co. having plans prepared grading, surfacing and building rein.-con., steel and timber bridges and culverts on 17.8 mi. Highway 19 from Trinity River to Houston Co., involving 13 acres clearing and grubbing, 16 mi. road grader work, 38,00 cu.yd. borrow, 14,700 ft. lumber, 37,171 cu.yd. gravel surfacing, 75,000 lb. structural steel, 389 cu.yd. Class "A" and 171 cu.yd. 1:2:3 concrete. About $200,915. W. J. Kelly, Huntsville, co. engr.

Tex., Mt. Pleasant—Titus Co. having plans prepared scarifying, surfacing and building concrete, steel and timber bridges and culverts on 20.17 mi. Highway 35, from point 3.6 mi. southeast from here to Tabor, involving 13.51 mi. scarifying, 20.17 mi. shoulders and cleaning ditches, 30,151 cu.yd. gravel surfacing, 223,000 ft. lumber, 8,844 lb. reinforcing and 75,100 lb. structural steel, etc. About $209,222. Wilder & O'Neal, co. engrs.

Tex., Tahoka—Lynn Co. voted $60,000 bonds to build good roads. C. H. Cain, co. judge.

Tex., Tyler—Smith Co. had plans prepared grading, surfacing and building rein.-con. bridges and culverts on 2.66 mi. Highway 37 north from Lindale, involving 5,666 cu.yd. graveling clay, 24,014 lb. reinforcing and 24,300 lb. structural steel, 4,146 cu.yd. borrow and 21,871 cu.yd. earth excav. About $43,927. Material will be furnished by county. D. F. Caldwell, Tyler, engr.

Colorado—State Highway Dept., Denver, plans to pave 1.3 mi. road between Boulder Creek and Denver, concrete, cost $57,000; surface 1.18 mi. Colorado Springs-Canon City Rd. and ¾ mi. Buena Vista Rd., sand, $64,000. Federal Government has been asked to appropriate toward cost.

Wash., Seattle—City plans to grade and build cement walks on Wilson Ave., involving 15,400 linft. concrete curbing, 145,000 cu. yd. earth excav., etc. About $101,245. A. H. Dimock, city engr. Noted April 1.

California—State Highway Comn., 515 Forum Bldg., Sacramento, rejected bid received Oct. 25, improving 81 mi. road between Huron Rd and easterly boundary of Fresno Co. Noted Nov. 11.

Que., Quebec—City receives bids about Jan. 5, for paving work. About $500,000.

Ont., Pembroke—City plans to sell $47,000 bonds to improve roads.

Ont., Wallaceburg—City having estimates made for paving James and Dufferin Sts., concrete. About $25,000. A. McNiece, Wallaceburg, engr.

BIDS DESIRED

N. Y., Bronxville (Yonkers P. O.)—Until Dec. 13, by Bronx Parkway Comn., 72 West Pondfield Rd., paving Bronx River Parkway Drive, between Duncomb St., Williamsbridge, New York City, and Mt. Vernon Ave., Yonkers. J. Downer, engr. and secy.; advertised in this issue.

Pa., Union City—Until Dec. 7, by Supervs. Union Twp., building portion of Concord Rd., from here to O'Neil Rd., involving 11,924 ft. rein.-con. J. W. O'Rourke, secy.

Maryland—Until Dec. 7, by State Rds. Comn., Garrett Bldg., Baltimore, resurfacing 2.42 mi. state highway from Harmony Grove to Frederick via cut off and Oposssumtown Pike, macadam, Frederick Co., Contr. F-41. J. N. Mackall, chn.; advertised in this issue.

W. Va., Princeton—Until Dec. 15, by L. G. Bowling, clk., Mercer Co. grading 3 mi. road from Bluestone River, near Kegley, to Spanishburg, 26 ft. wide, Federal Aid Project 44. About $60,000.

Ga., Vienna—Until Dec. 7, by Bd. Comrs. Rds. and Revenues, Dooly Co., building 8.81 mi. sand clay road, Federal Aid Project 18. Work involves 11.76 acres clearing and grubbing, 45,146 cu.yd. common excav. and borrow, 897.5 lin.ft. 15-24 in. vitr. clay pipe, 337 lin.ft. 30 in. c.i. pipe, 4,900 lb. reinforcing steel, 63.9 cu.yd. Class "A" and 70.2 cu.yd. Class "B" concrete, and 12,682 cu.yd. top soil surfacing. C. S. Gurr, clk.

Indiana—By Bd. Comrs. building roads in following counties:

Dec. 6, Owen Co., Spencer, 8,885 ft. Geo. Knapp et al Rd., Marion Twp., gravel. J. R. Greene, aud.

Dec. 7, Pulaski Co., Winamac, 10,775 ft. Oscar Pulaski Rd., Cass Twp., gravel; 3 mi. W. Vollmer Rd., White Post Twp., gravel. J. C. Howe, aud.

Wisconsin—Until Dec. 6, by State Highway Comp. Madison grading and paving 2.1 mi. Portage-Wyocena-Rio Rd., Federal Aid Project 51, Columbia Co., involving 35.14 cu.yd. Class "A" concrete in culverts, 1,992 sq.yd. 24 ft. featheredge gravel, 9,568 cu.yd. earth and 46,933 cu.yd. borrow excav., also 70 ft. span bridge, which involves 140.5 cu.yd. Class "A" and 26 cu.yd. Class "B" concrete, 47,090 lb. structural steel, etc. Noted Nov. 11.

Wisconsin—Until Dec. 6, by State Highway Comn., at div. office 2, 208 Stephenson Bldg., Milwaukee, grading and paving 4.65 mi. Town Line Rd., Federal Aid Project 115, involving 49,150 sq.yd. 18 ft. concrete, 16,385 bbl. cement, etc.

Wisconsin—Until Dec. 7, by State Highway Comn., at div. office 8, 1st Natl. Bank Bldg., Superior, grading and paving 13 mi. Barron-St. Croix Rd., Federal Aid Project 22, Polk Co., involving 26,000 cu.yd. gravel surfacing.

Ia., Des Moines—Until Dec. 15, by Comrs. Polk Co., paving 9 mi. county highway, involving 22,596 cu.yd. earth excav. and 103,264 sq.yd. paving. F. O. Laing, Des Moines, engr.

Ia., Marshalltown—Until Dec. 8, by M. E. McLelland, aud. Marshall Co., paving 6 mi. Lincoln Highway, 1½ mi. east and west, north and south on 3rd Ave. N. and south on Center St. S., 18 ft. wide, crushed rock, cement and sand. H. O. Hickok, co. engr. Noted Nov. 25.

Kan., Junction City—Until Dec. 11 by Geary Co. paving 0.61 mi. East 6th St. Benefit Dist., 18 ft. wide, involving 6,933 sq. yd. single course concrete, 2,391 cu.yd. earth excav. and 148.7 cu.yd. Class A concrete in culverts, cost, $33,852; 0.4 mi. Humboldt Dry Creek Benefit Dist. Rd., Sect. A, 18 ft. wide, involving 4,225 sq.yd. single course concrete and 3,200 cu.yd. earth excav., $20,184; resurfacing 3,800 lin. ft. Golden Belt Rd. south of here, 16 ft. wide, involving 6,722 sq. yd. vertical fibre on 3 in. sand cushion, 2,500 cu.yd. earth excav., etc., $34,714. G. A. Russell, Junction City, engr.

Tex., Canadian—Until Dec. 13, by W. D. Fisher, judge Hemphill Co., clearing, grubbing, grading, surfacing and draining 14.4 mi. Highway 4 from here northwest to Lipscomb Co. line, involving 420 cu.yd. concrete, 36,135 lb. reinforcing steel, 8,700 cu.yd. earth and 1,850 cu.yd. rock excav. About $82,747. Hess & Skinner, Southwestern Life Bldg., Dallas, engrs. Noted July 22.

Tex., Childress—Until Dec. 13, by M. J. Hathaway, judge Childress Co., grading, clearing, grubbing, surfacing and draining 10.11 mi. State Highway 4, involving 526 cu.yd. Class "A" concrete, 34,688 lb. reinforcing steel, 7,469 cu.yd. borrow, 50,024 cu.yd. unclassified earth and 384 cu.yd. solid rock excav., etc. About $52,887. Hess & Skinner, Southwesten Life Bldg., Dallas, engrs. Noted Nov. 18.

Tex., El Paso—Until Dec. 13, by E. B. McClintock, judge El Paso Co., building gravel base on 12.61 mi. State Highway 1, Fabens Rd. involving 27,791 cu.yd. surfacing hauled first ¼ mi. and 151,616 cu.yd. surfacing hauled additional ¼ mi. About $64,340. L. A. White, co. engr.

Tex., San Antonio—Until Dec. 9, by city, paving 30 blocks, concrete base with asphalt surface. About $100,000. H. Helland, engr.

Tex., Wichita Falls—Until Dec. 6, by City Clerk, improving 8th St. fom Bluff to Brooks Sts., 9th St. from Denver to Taylor Sts., Grant St. from Ave. D to Center of intersection with Ave. H, Ave. A from 10th to 11th Sts., involving 35,056 sq.yd. pavement, 37,052 cu.yd. excav., 17,983 lin.ft. curb, etc. Noted Oct. 28.

New Mexico—Until Dec. 21, by State Highway Comn., Capitol Bldg., Santa Fe, constructing 17.98 mi. road near Santa Rosa, Federal Aid Project 22 Guadalupe Co., involving 46,530 cu.yd. Class "1," 2,185 cu.yd. Class "2" and 7,743 cu.yd. Class "3" excav., 20,656 cu.yd. Class "1" borrow, 7,412 mi. crowning and shaping, 21,013 cu.yd. 1 course gravel surfacing, 69.9 cu.yd. cement rubble masonry, 59.65 cu.yd. Class "A" and 60.2 cu.yd. Class "B" concrete in box culverts and spillway, 183 cu.yd. Class "B" concrete in corrugated metal culvert headwalls, 328.22 cu.yd. Class "B" and 3.04 cu.yd. Class "A" concrete in abutments and caps, 762 lb. structural steel, etc.; 8.747 mi. road between Ft. Sumner and Ricardo, Federal Aid Project 23, De Baca Co., 4,738 cu.yd. Class "1" excav., 9,032 cu.yd. Class "1" borrow, 4.526 mi. crowning and shaping, 10,235 cu.yd. 1 course gravel surfacing, 36.68 cu.yd. cement rubble masonry, 28.53 cu.yd. Class "A" and 16.3 cu.yd. Class "B" concrete in spillway, 42.27 cu.yd. Class "B" concrete in headwalls, 25.64 cu.yd. Class "B" concrete in bridge, etc.; 13.825 mi. road between Silver City and Santa Rita, Federal Aid Project 28, Grant Co., 80,309 cu.yd. Class "1", 11,464 cu.yd. Class "2" and 10,844 cu.yd. Class "3" excav., 9,787 cu.yd. Class "1" borrow, 15,979 cu.yd. 1 course crushed stone surfacing, 33.68 cu.yd. cement rubble masonry, 42.62 cu.yd. Class "A" and 134.7 cu.yd. Class "B" concrete in spillway and box culverts, 108 cu.yd. Class "B" concrete in headwalls, 4,052 cu.yd. 1 course cement concrete pavement, 15.2 cu.yd. Class "A" and 671.07 cu.yd. Class "B" concrete in caps and abutments, 3,750 lb. structural steel, etc.; 15.981 mi. road between Willard and Mountainair, Federal Aid Project 43, Torrance Co., 21,571 cu.yd. Class 1 excav., 3,007 cu.yd. Class 1 borrow, 10.337 mi. crowning and shaping, 96.66 cu.yd. Class "B" concrete in headwalls, etc. L. A. Gillett, state highway engr.

Cal., Merced—Until Dec. 13, by P. J. Thurston, clk. Merced Co., grading and paving 3.28 mi. Rd. Dist. 2, concrete or asphalt. A. E. Connell, co. engr.

Ontario—Until March 1, by W. A. McLean, deputy minister of public highways, Toronto, for grading Provincial Highways in townships of Flamboro, E., Normanby, Egremont, Glenelg, Holland, Sullivan, Arthur, Mildmay, Brant, Greenock, Kinloss, Toronto, Nelson, Caledon, Mono, Mulmer, Amaranth, Artemesia, Sydenham, Derby, West Williams, Bosanquet, McKillop, Tuckersmith, Hullet, Goderich, Raytham, Mosa, Aldboro, Dunwich, Louth Inisfill, Barrie, Vespra, Oro, Orillia, North and South Rama, Pittsburg Leeds, Crosby S., Bastard, Kitley, Elmsley S. and N., Ramsey, Gloucester, Cumberland, Clarence, North Plantagenet, Alfred, Longueuil, Hawkesbury, West and East Hunley, Charlottenburg, Osnabruck, Cornwall, Williamsburg, Augusta, Elizabethtown, Yonge, Escott, Landsdowne, Leeds, Pittsburg, Fredericksburg, Cramahe, Haldimand, Darlington, East Whitby, Scarboro. Total cost about $15,000,000. G. Hogarth, Parliament Bldgs., Toronto, city engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Massachusetts**—State Highway Dept., Boston, let contract paving 18,555 ft. state highway from town line of Westfield to Connecticut state line at Granby bituminous macadam, to Lane Constr. Co., 37 Colony St., Meriden. $100,789. Noted Nov. 11.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., received bids Nov. 24, regulating and grading sidewalks and gutters in (a) Farrington St. from State St. to Elbow Pl., (b) Ely Ave. from Bway. to Bridge St., (c) filling and restoring street on Beach Channel Drive along Jamaica Bay, from C. Kurth, 37 Brotto Ave., Elmhurst, L. I., (a) $1,560, (b) $1,882; Peace Bros., 460 Lockwood Ave., (a) $1,872, (b) $1,742; Kennedy & Smith, 94 Main St., Flushing, (a) $1,952, (c) $14,645; Welsh Bros., 14 Queens St., Astoria, (b) $1,527; F. E. Jones, 17 Battery Pl., New York City, (c) $14,950; Waberley ice Co., (c) $15,985.

N. Y., New York—Park Comrs. received bids Nov. 24, (a) repaving with asphaltic mastic, walks of Riverside Park, (b) regulating and recovering with new surface material Jasper Oval Playgrounds, from Sicilian Ahphalt Paving Co., 41 Park Row, (a) $13,500; Union Paving Co., Bway. and 112th St., (a) $14,780; T. DiRoma, 33 Evelyn Pl., (b) $4,960. Noted Nov. 18.

N. J., Jersey City—Bd. Freeholders Hudson Co. received bids improving Schuyler Ave., from Maher & McNichols, Kearny, $173,306; Tannarone Bros., Belleville, $181,299; Hudson Contg. Co., Jersey City, $182,546. Noted Sept. 23.

★**N. J., New Brunswick**—Middlesex Co. let contract paving various streets, involving 12,087 sq.yd. Warrenite bitulithic on 6 in. concrete foundation, to Standard Bitulithic Co., 50 Church St., New York City.

★**Pennsylvania**—State Highway Dept., Harrisburg, let contract building 25,001 ft. of roadway in Greenfield and Northeast Twps., Erie Co., to Warren Bros. Co., 142 Berkeley St., Boston, $254,083. Noted Nov. 11.

★**Pa., Phila.**—City let contracts paving 7th St. from Chew to Medro Sts., involving 4,864 sq.yd. asphalt and 507 sq.yd. vitr.

Streets and Roads (Continued)

Annsbury St., from 54th to 6th Sts., 2,800 sq.yd. asphalt and 275 sq.yd. vitr., Jasper St. from Buckius to Frankford Aves., 4,226 sq.yd. asphalt and 472 sq.yd. vitr., to Union Paving Co., 30th and Lest Sts., $24,678, $18,745, and $20,840 respectively. Noted Nov. 11.

Maryland—State Rd. Comn., 601 Garrett Bldg., Baltimore, received bid Nov. 16, grading and draining 3.04 mi. state highway from Little Gunpowder Falls toward Aberdeen, Hartford Co.—Contr. H-26, from T. Mullan, 3945 Greenmount Ave., Baltimore, $16,900. Noted Nov. 11.

North Carolina—State Highway Comn., Raleigh, received bids improving (1) 7.63 mi. road between Wilson-Wayne Co. line and Wiggins Mill, Federal Aid Project 127, 18 ft. wide, Wilson Co., involving (a) 5 acres clearing and grubbing, 22,700 cu. yd. common excav., 20,050 cu.yd. topsoiling, 314 ft. 15-30 in. terra cotta and metal pipe and 63 cu.yd. Class B concrete, (b) 220 cu.yd. Class A concrete, 27,500 lb. reinforcing steel, 470 lb. plates and bolts and 510 ft. untreated timber piles, etc.; (2) 64 mi. road between Wilson Twp. line and Wilson Nash Co. line, Federal Aid Project 117, 18 ft. wide, Wilson Co., (a) 5 acres clearing and grubbing 20,400 cu.yd. common excav., 304 ft. 15-24 in. terra cotta pipe, 16,500 cu.yd. topsoiling, 25,000 cu.yd. overhaul and 28 cu.yd. Class B concrete, (b) 271 cu.yd. Cass A concrete, 24,510 lb. reinforcing steel, 230 lb. expansion plates and bolts, etc.; (3) 8¾ mi. road between Hornet Creek and city limit of Whitakers, Federal Aid Project 73, 18 ft. wide, Nash Co., (a) 12 acres clearing and grubbing, 48,700 cu.yd. common excav., 22,750 cu.yd topsoiling, 1,298 ft. 15-30 in. metal pipe, 86 cu.yd. Class B concrete, (b) 1,599 cu.yd. Class A concrete, 149,590 lb. reinforcing steel, 5,340 ft. untreated timber piles, 1,210 lb. expansion plates and bolts, etc. from J. M. Marrow, Clarksburg, Va., (1a) $32,448 (2a) $27,364; L. J. Smith Constr. Co., Knoxville, Tenn., (1a and b) $44,988, (2a and b) $40,950; Porter & Boyd, Realty Bldg., Charlotte, (1a and b) $49,222, (2a and b) $44,374, (3a and b) $151,675; Crawford & Crawford, Nevens, (3a) $53,771; P. R. Ashby, Raleigh, (3a) $65,106.

★**N. C., Greensboro**—Comrs. Guilford Co. let contract for 21,000 sq.yd. Warrenite-bitulithic pavement on 5 in. concrete base, to R. G. Lassiter, Kenoughton Rd., Norfolk, Va.

★**N. C., High Point**—City let contract for 7,000 sq.yd. Warrenite-bitulithic pavement on 5 in. concrete base, to R. G. Lassiter, Kenoughton Rd., Norfolk, Va.

★**S. C., Walhalla**—Comrs. Oconee Co. let contract topsoiling 8 mi. Seneca-Walhalla Rd., to Elliott & Sons, Union. About $45,000.

★**Ga., Chatsworth**—Murray Co. let contract building 6.7 mi. soil surface road between here and Whitfield-Murray Co. line, to Hagedorn Constr. Co., Commerce. About $75,000.

★**Lousiana**—State Highway Dept., New Orleans, let contract building 10.43 mi. Hammond-Baton Rouge Highway, gravel, Livingston Parish, to Peterman & Loustalot, Franklin, $125,714.

★**La., New Orleans**—City let contract paving Audubon St. from Zimple St. to St. Charles Ave., bitulithic, to Craven & Lang, 1015 Hibernia Bank Bldg., $28,623; building subsurface drains, to A. P. Boh, 4148 Banks St., $49,106.

★**O., Dayton**—Montgomery Co. let contract paving 1.7 mi. Troy Pike from Vandalia southward, 20 ft. wide, involving 20,000 sq.yd. concrete on concrete base, to C. Hoolihan, South Main St., $90,881.

★**Michigan**—State Highway Dept., Lansing, let contract grading, draining and surfacing 4.465 mi. State Trunk Line Rd. 55-1, 16 ft. wide, Missaukee Co., to G. Davenport, Pioneer, $29,484. Noted Nov. 4 under "Lake City."

★**Michigan**—State Highway Dept., Lansing, let contract improving 1.366 mi. State Trunk Line Rd. 10-32, Sect. B, involving 72.1 stations fine grading and 16,029 sq. yd. bituminous concrete wearing course, to Oakland Co. Rd. Comrs., Pontiac, $39,658.

★**Michigan**—State Highway Dept., Lansing, let contract grading, draining and surfacing 3.575 mi. State Trunk Line Rd. 20-1, 6 ft. wide, Osceola Co. involving 18,951 cu. yd. earth excav., 33,491 sq.yd. gravel surfacing, etc., to T. H. Duvall, McBain, $33,313. Noted Oct. 21.

★**Ill., Glenellyn**—Bd. Local Impvts. let contract paving Forest and Penn Aves., Park Blvd. and Oak St., rein.-con., to E. M. Scheflon, Elgin, $67,609.

★**Minn., Luverne**—City let contract for 150,000 sy.yd. concrete pavement on 6 in. base, to Hanlon & Okes, 338 Lumber Exch. Bldg., Minneapolis, $3.08 per sq.yd.

★**Minn., Morris**—Stevens Co. let contract graveling 17 mi. Federal Aid Project 127, to Dobbelmann & Rasmussen, 4232 Colfax Ave., S., Minneapolis, $72,351.

★**South Dakota**—State Highway Comn., Pierre, let contract grading and draining 2.09 mi. Chamberlain-Presho Rd., Federal Aid Project 49, Sect. A, 36 ft. wide, Lyman Co., and 3.15 mi. Presho-Winner Rd., Federal Aid Project 27-B, 36 ft. wide, Lyman and Tripp Counties, to R. P. England, Murdo, $32,903 and $39,471 respectively.

★**N. D., Cooperstown**—Comrs. Griggs Co. let contract grading 8 mi. Federal Aid Projects 17-A, 50 and 99, to Stanley Bros., Grand Forks, $29,523.

★**Montana** — State Highway Dept., Helena, let contract graveling 3 mi. Federal Aid Project 134, 24 ft. wide, Sweet Grass Co., to A. Carlson, Columbus, $35,080.

Tex., Bay City—Matagorda Co. received bids Nov. 13, improving 7.31 mi. Highway 12-A, (a) surfacing road with shell and building rein.-con. culverts, involving 33,169 cu.yd. earth borrow and 4,121 cu.yd. ditching, (b) furnishing 13,720 cu.yd. shell, from Starkey, Smith & James, Houston, (a) $33,883; Billingsley & Ryman, Matagorda, (a) and (b) $63,443; Haden & Austin, 727 Kress Bldg., Houston, (a) and (b) $64,526. Noted Oct. 28.

Tex., Boston—Bowie Co. received only bid grading, surfacing and draining 4.05 mi. Highway 8 from Maud south to Sulphur River, 12 ft. wide, also grading, surfacing and building rein.-con. and steel bridges and culverts on 12.3 mi. Maud-Redwater Rd., 12 ft. wide, from Smith Bros., Corsicett, $63,325 and $203,564 respectively. Noted Nov. 4.

★**Tex., Cleburne**—Johnson Co. let contract grading, surfacing and draining 8 mi. Glen Rose Rd., 16 ft. wide, to Allhands & Davis, Wills Point, $68,900; 16 mi. Grandview Rd, 16 ft. wide, to O'Connor & Gibson, Campbell House, Dallas, $160,200.

★**Tex., Cleburne**—Johnson Co. let contracts grading, gravel surfacing and draining 8 mi. Godly and Cresson Rds., 20 ft. wide, also 20 mi. Cleburne-Dallas Highway, 20 ft. wide, to F. S. Harris Constr. Co., Ft. Worth, $64,371 and $157,547 respectively.

★**Tex., Cleburne**—Johnson Co. let contract grading, surfacing and building concrete culverts on 8 mi. Weatherford Rd., 16 ft. wide, to F. H. Harris Constr. Co., Ft. Worth, $64,000.

★**Tex., Dallas**—City let contract paving blocks 10th St. from Polk St. to Jefferson Ave., 30 ft. wide, asphalt on concrete base, to Texas Bitulithic Co., Praetorian Bldg., $30,713; 9th St. from Willomet to Bishop Sts., 30 ft. wide, asphalt on concrete base, to Uvalde Paving Co., 1001 Main St., $66,092.

★**Tex., Ft. Worth**—Tarrant Co. let contract grading, surfacing and draining 7.95 mi. Arlington-Grapevine Rd., 16 ft. wide, to T. A. Griffin, Seevers St., Dallas, $88,216.

★**Tex., Fredericksburg**—Gillespie Co. let contract grading, scarifying, surfacing and building rein.-con. bridges and culverts on 9.99 mi. Highway 9 from here south to Kendall Co. line, 16 ft. wide, to B. S. Davison, 1110 Harold Ave., Houston, $68,241; including 10% for engineering and contingencies. Noted Nov. 25.

INSPECTION SHED—NEW YORK, N. Y.

Bids were received by Transit Constr. Comn., Nov. 19th, for constructing inspection shed at 180th St. yards, from (A) S. S. Jones Constr. Corp., 473 West 158th St.; (B) Nugent Constr. Corp., 505 5th Ave.; (C) Bainbridge Constr Co., Inc., 52 Vanderbilt Ave.; (D) M. F. Kelly Co., Inc., 33 Old B'way.; $418,889; (E) G. Colon & Co., 81 East 125th St., $425,172; (F) D. C. Serber, 252 West 46th St., $445,311; (G) A. W. King, 81 East 125th St., $475,453; (H) J. Schlesinger, Inc., 259 West 30th St., $477,797; (I) Rogers & Hagerty, 103 East 125th St., $485,899; (J) Thomas Dwyer, B'way. & 216th St., $497,246. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
2,300 cu.yd. excavation, earth, except for sewers, including disposal	$2 01	$4 00	$3 50
250 cu.yd. earth fill and top soil, sec. No. 224	1 15	5 00	3 50
5 cu.yd. excavation, rock, including disposal	2 01	15 00	20 00
1,500 cu.yd. structural concrete work (a) foundations	20 77	29 97	22 00
1,000 cu.yd. structural concrete work (b) floors	14 64	18 05	20 00
1,200 cu.yd. structural concrete work (c) reinforced	23 49	30 00	30 00
500 sq.yd. tooling	1 45	4 00	3 00
4,600 cu.yd. protective concrete masonry, outside of waterproof	9 81	32 11	35 00
2,000 cu.yd. brick masonry, except brick chimney	35 27	32 76	38 00
Brick chimney complete (c) boiler house (lump sum)	2,772 00	2,260 00	4,000 00
10 cu.yd. hollow tile, masonry	32 41	45 50	60 00
5 cu.yd. broken stone, other than in concrete	4 89	7 14	10 00
6,000 sq.ft. slag, or gravel roof	21	06	20
650 sq.yd. waterproofing, without fabric	58	53	80
150 sq.yd. waterproofing, 3-ply	1 31	1 07	2 00
9,700 sq.yd. waterproofing, 5-ply	1 50	1 60	1 50
1 ton steel, miscellaneous shapes	226 80	220 00	250 00
70 ton steel rods and bars in concrete	151 80	146 00	200 00
1 ton miscellaneous iron castings	504 00	300 00	300 00
40 trees, furnished and planted	2 30	12 00	20 00
140 hedges, Cal. Privet, furnished and planted	58	1 07	12 00
100 sq.yd. plastering, flat. surf. brick or H.T	1 13	1 54	3 00
10 sq.yd. plastering, flat surf., concrete	1 12	1 90	3 50
100 sq.yd. plastering, flat surf. metal lath	1 39	1 80	3 50
6,800 sq.ft. concrete work (a), 3½-in. slab	44	54	65
5,000 sq.ft. concrete work (b) 4-in. slab	44	68	80
115 sq.ft. concrete work, 6-in. slab	54	80	1 00
2,500 cu.yd. cinder fill	1 27	1 78	3 50
1,400 lin.ft. terra cotta coping, 12-in. walls	67	71	1 10
700 lin.ft. terra cotta coping, 16-in. walls	1 27	98	1 60
50 sq.yd. metal lath, without furring	69	1 00	2 00
50 sq.yd. metal lath, with furring	86	4 00	3 00
Doors, other than kalamien:			
10 sq.ft., type D	3 15	4 05	3 50
80 sq.ft., type E	5 04	4 62	4 50
40 sq.ft., type F	4 41	4 76	3 50
230 sq.ft., type H	3 46	2 62	3 00
1,500 sq.ft., type N	3 78	4 38	5 00
Doors, Kalamien:			
400 sq.ft., type J	5 23	4 76	6 50
80 sq.ft., type K	3 15	3 57	9 00
40 sq.ft., type L	4 72	3 57	6 50
50 sq.ft., type M	4 09	3 45	5 50
50 sq.ft., type UU	6 30	6 00	4 50
230 sq.ft. windows, double hung	3 78	3 51	3 50
250 sq.ft. windows, hinged	4 09	3 00	2 50
Additional hardware:			
3 checks	17 01	15 00	20 00
12 swing door stops	5 04	4 00	10 00
14 rubber cover, chains	5 04	3 00	7 00
3 push plates	2 52	7 00	6 00
3 door pulls	5 04	6 00	5 00
3 pair kick plates	12 60	18 00	20 00
380 lin.ft. railings, pipe	3 59	4 00	3 50
12 lin.ft. steel ladders	4 16	2 00	4 00
Rough plumbing comp. (lump sum)	4,152 00	6,500 00	8,000 00
Plumbing fixtures:			
15 water closet bowls	143 64	133 00	120 00
42 lavatories	102 06	72 00	85 00
12 urinals	102 32	107 00	95 00

1 slop sink	158 76	148 00	140 00
5 floor drains	6 30	25 00	25 00
550 sq.ft. structural slate, pipe chamber part	1 58	1 45	2 50
250 sq.ft. structural slate, stall part	1 57	1 66	2 50
50 sq.ft. structural slate, floor slabs	3 78	1 45	3 00
160 lin.ft. structural slate, curved corners and angles	3 78	1 90	5 00
1,500 lb. miscellaneous steel shapes support, slate	25	20	30
4 c.-i. strainers, drain pipe	2 30	30 00	35 00
4 c.-i. strainers, cesspools	5 75	30 00	50 00
Electric conduits:			
7,300 lin.ft., ¾ in.	44	33	50
2,800 lin.ft., 1 in.	50	36	60
500 lin.ft., 1¼ in.	1 26	53	90
550 lin.ft., 2 in.	2 52	71	1 10
350 lin.ft., 2½ in.	3 15	1 02	1 60
20 lin.ft., 3 in.	3 78	1 33	2 10
275 lin.ft., 3½ in.	5 04	1 58	4 20
645 c.-i. outlet boxes	1 89	2 60	3 00
20 c.-i. pull boxes, 6x6x6 in.	8 82	8 70	12 00
20 c.-i. pull boxes, 6x6x4 in.	7 56	7 70	10 00
1 c.-i. pull box, 12x6x4 in	10 08	12 95	25 00
1 c.-i. pull box, 8x6x4 in	8 82	11 90	20 00
2 steel panel board boxes, 25x36x6 in.	50 40	32 00	85 00
2 steel panel board boxes, 45x29x6 in.	56 70	45 00	100 00
2 steel panel board boxes, 53x27x6 in.	63 00	45 00	135 00
Stairways, including landings, stairway "T" (lump sum)	546 25	884 00	900 00
Stairways, including landings, stairway "U" (lump sum)	1,578 15	1,318 00	2,300 00
Stairways, including landings, stairway "V" (lump sum)	1,578 15	1,415 00	2,500 00
500 lb. floor construction, checker steel plate	41	20	40
60,000 sq.ft. concrete cinder work, 1-in. cement, floor finish	15	13	15
2,800 lin.ft. concrete and cinder work, cement coping	22	25	65
220 cu.ft. concrete and cinder work, concrete curbs, skylight	70	1 20	1 50
3,500 cu.ft. concrete and cinder work, concrete roof gutters	63	57	1 00
60,000 sq.ft. roofing tile, interlocking	59	56	50
18,000 sq.ft. roofing tile, flat	61	57	50
1,400 sq.ft. copper flashing	1 07	77	80
150 lin.ft. leaders, 3-in. corr. g.i.	1 39	1 78	1 50
1,300 lin.ft. leaders, 4-in. w.i.	1 39	4 75	3 00
280 lin.ft. leaders, 4-in. c.-i.	1 39	4 00	2 50
90 lin.ft. saddles, c.-i.	1 74	6 60	3 00
20 lin.ft. saddles, steel	1 66	7 20	3 50
27,000 sq.ft. painting, plaster, brick and concrete	075	12	12
27,000 sq.ft. windows, steel sash, with pivoted panels	1 40	1 35	1 20
13 skylights, type "C"	68 04	708 00	250 00
5 skylights, type "D"	120 96	150 00	1,100 00
Water connections (lump sum), any size	579 60	1,000 00	500 00
50 lin.ft. narrow gauge track	2 30	8 33	7 00
7 bumping posts	517 50	500 00	700 00
350 lin.ft. standard gauge track	2 30	8 00	4 00
2 coal hatches	11 50	100 00	65 00
Extended totals	$358,565	$398,017	$414,17

Streets and Roads (Continued)

★**Tex., San Marcos**—Hays Co. will grade, surface and grade 17.05 mi. Austin-Fredericksburg Rd., 12 ft. wide, cost $64,154; including 10% for engineering and contingencies. Work will be done by day labor under supervision of J. R. Wilhelm, co. judge. Noted Nov. 18.

Tex., Sherman—Grayson Co. received bids grading, surfacing and draining 7.37 mi. Jefferson Highway 11, from Womack Constr. Co., Sherman, $68,087; Mineral Springs Constr. Co., Mineral Springs, $70,606; J. Houchins, 2608 Cedar Springs St., Dallas St., Dallas, $77,347; material furnished by county, to cost $28,299. Work involves 6.43 acres clearing and grubbing, 44,195 cu.yd. borrow and 9,657 cu.yd earth excav., 11,791 cu.yd. gravel surfacing, 36,622 lb. reinforcing and 23,500 lb. structural steel, 487.6 cu.yd. 1:2:4, 40.4 cu.yd. 1:2½:5 and 4.9 cu.yd. 1:3:6 concrete.

★**Wash., Seattle**—City let contract paving, grading and curbing Seattle Blvd., et al., involving 10,270 sq.yd. brick block on 6 in. base, 10,760 sq yd. 8 in. concrete, 3,250 lin.ft. armor concrete curbing, 6,500 lin. ft. special concrete curbing and 65,000 cu.yd. earth excav., to F. McLellan, 1720 16th Ave., $176,888. Noted Nov. 11.

Ore., Forest Grove—City let contract paving various streets, involving 4,257 sq.yd. Warrenite bitulithic on 4 in. crushed rock foundation, to Warren Constr. Co., Journal Bldg., Portland.

★**Ore., Pendleton**—City let contract paving various streets, involving 10,982 sq.yd. Warrenite bitulithic on 3½ in. gravel foundation, to Warren Constr. Co., Journal Bldg., Portland.

Cal., Brawley—City received bids Nov. 15, improving 8th and H Sts. and various alleys, from G. W. Cushing, Richmond, involving 213,000 sq.ft 6 in. cement concrete pavements, at $0.36 per sq.ft., 8,800 sq.ft. sidewalks, $0.25, 6,500 lin.ft. Class "A" curbing, $0.75. G. R. Wade, city engr.

★**Cal., Fresno**—City let contract improving Van Ness Blvd. between University and Terrace Aves., to Thompson Bros., 1514 H. St., $60,810.

★**Cal. Los Angeles**—Bd. Pub. Wks. let contract improving Normandie Ave., to G. R. Curtis, 2440 East 26th St., $24,700.

★**Cal., Los Angeles**—City let contract improving and building sewers in Crown Hill and Columbia Aves., 2nd, 3rd, 6th and Witmer Sts., to Fairchild-Gilmore-Wilton Co., 396 Pacific Electric Bldg., $58,855.

★**Cal., San Diego**—Common Council let contract paving Lytton and Voltaire Sts. and Chatsworth and Catalina Blvds., to Fairchild-Gilmore -Wilton Co., 25 14th St., $98,684. Noted Nov. 25.

★**Ont., Toronto**—City let contract building bitulithic pavements on 2 streets, to Warren Bituminous Paving Co., McKinnon Bldg., $20,278; asphalt on 1 street, to Constr. & Paving Co. Ltd., Confederaton Life Bldg., $4,389.

Railways

PROPOSED WORK

Massachusetts—Commenwealth of Massachusetts, Mental Disease Comn., State House, Boston, plans to build spur railroad track in Westboro, from New York, New Haven and Hartford R.R. at Talbot Sta. to power house of State hospital. About $50,000.

Florida — See "Industrial Works" under Hastings.

Quebec—Quebec & Chibongaman Ry. Co., Chicoutimi, receives bids in April building 120 mi. railway from St. Felicien to Chicoutimi, 130 mi. from Chicoutimi to Quebec, and 150 mi. from St. Felicien to Chibougaman. About $20,000,000. J. F. Grenon, ch. engr.

BIDS DESIRED

New York—Until Dec. 10, by Pub. Serv. Comn., 49 Lafayette St., New York City, for special work on track crossings in Livonia Ave. Yards, Brooklyn. About $68,000. Former bids rejected. Noted Sept. 23.

Excavation and Dredging

PROPOSED WORK

Fla., Port Tampa—Dredging—Atlantic Coast Line Ry. Co., Atlantic Coast Line Bldg., Wilmington, N. C., plans to dredge channel, here, (24½ ft.) to depth of 27 ft., involving 50,000 cu.yd. rock and 37,120 cu. yd. earth excav. J. E. Willoughby, ch. engr.

Fla., Tampa—Dredging—W. C. Clarkson plans to dredge slip, 1,450 ft. long, 200 ft. wide, and 16 ft. deep, involving 320,000 cu.yd. excav. About $75,000. Engineer not selected.

Ill., Illopolis—Drainage—Drainage Comrs. D. D. 1 rejected bids received Nov. 6, improving D. D. 1, Sangamon Co. J. W. Dapper, Taylorville, engr. Noted Oct. 28.

Ill., Vandalia — Excavation — Kaskaskia River Drainage Comrs. plans to straighten 50 mi. Kaskaskia River. About $2,000,000. J. V. Waddell, ch. engr.

Wis., Burnett—Drainage—E. Pfaff, aud. Dodge Co. (Juneau), receives bids in winter, building Burnett Farm D.D. 1, involving 37,000 ft. drain tile. About $15,000. L. S. Keeley, Mayville, engr. Noted Nov. 4.

Wis., Wisconsin Rapids—Ditch—Farm Drainage Bd. plans to build 12.75 mi. open ditch, in Wood Co., involving 13,200 ft. 8-12 in. tile, etc. About $55,000. A. E. Bean, Vesper, secy.

S. D., Armour—Drain—Comrs. Douglas Co. rejected bids received Sept. 10, building Voss Drainage System, involving 15,700 cu. yd. excav. Western Eng. Co., Yankton, engrs. Noted Aug. 19.

BIDS DESIRED

Ia., Creston—Ditch—Until Dec. 8, by B. M. Breed, aud. Union Co., building county ditch, involving 177,999 cu.yd. excav., 10,875 lin.ft. 6-12 in. tile, etc. About $50,000. G. A. Perry, Creston, engr.

Ia., Jefferson—Drainage—Until Dec. 7, by G. A. Coburn, aud. Greene Co., building D. D. 147, involving 69,480 ft. 6-30 in. tile; D. D. 146, 35,230 ft. 6-28 in. tile; D. D. 138, 7,700 ft. 10-28 in. tile; D. D. 155, 13,420 ft. 6-20 in. tile; D. D. 134, 13,930 ft. 6-22 in. tile. S. J. Melson, engr.

Ia., Wapello—Drainage—Until Dec. 20, by F. G. Wright, aud. Louisa Co., building D. D. 22, to include 5 mi. ditches and involved 71,000 cu.yd. excav. about $23,000. V. E. Thompson, Wapello, Engr. Noted Oct. 21.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Ia., Emmetsburg**—Drainage—Palo Alto Co. let contract improving D.D. 123, to Berkler & McNulty, Emmetsburg, at $0.20 per cu.yd. Noted Nov. 25.

★**Ia., Logan**—Drainage—Harrison Co. let contract building Cut-Off D. D., involving 45,000 cu.yd. excav., to J. Young, Modale, $0.37 per cu.yd.

★**Ia., Nevada**—Drainage—Story Co. let contract building Washington Twp. Drainage Ditch 79, involving 13,066 cu.yd. excav., to C. E. Elzy, Nevada, $0.44 per cu.yd.

★**Ia., Spirit Lake** — Drainage — Comrs. Emmett and Dickinson Counties let contract building D. D. 3, to Graettinger Tile Wks., Graettinger. Noted Sept. 16.

★**Ia., West Union**—Drainage—Fayette Co. let contract building DD-1, involving 82,325 lin.ft. 5-38 in. tile, to Paine & Gjellefald, Algona. About $78,000.

★**Minn., New Ulm**—Ditch—Brown and Cottonwood Counties, let contract building Judicial Ditch 7, involving 44,975 ft. 6-28 in. tile, 6,318 ft. 10-18 in. sewer pipe, 140 lb. 8 in. headwalls, etc., to New Ulm Drainage Constr. Co., New Ulm, $66,312.

★**S. D. Armour**—Drain—Comrs. Douglas Co. let contract building Garden Valley Drainage System, involving 246,000 cu.yd. excav. and Mud Lake Drainage System, 182,000 cu.yd. excav., to Northern Minnesota Drainage Co., Litchfield, $.25 per cu. yd. Noted Aug. 19.

Industrial Works

PROPOSED WORK

Mass., Boston—T. L. Harkins Machine Co., 44-54 Farnsworth St., plans to build 2 story, 50 x 100 ft. rein.-con. plant, on Cambridge St. Cost between $50,000 and $60,000. Architect not selected.

Mass., East Walpole—Bird & Son, Inc., plan to build 1 story, 50 x 200 ft. addition to plant, concrete, brick and steel, rein.-con. flooring, concrete foundation. C. T. Main, 201 Devonshire St., Boston, engr.

Mass., New Bedford — New Bedford Shuttle Co., 24 Elm St., plans to build 3 story, 60 x 160 ft. addition to plant, concrete, brick and steel, rein.-con. flooring, concrete foundation, on Rochdale Ave. Leary & Walker, 307 Times Bldg., archts.

Mass., Shirley—Commonwealth of Massachusetts, 36 State House, Boston, having plans prepared by Densmore & LeClear, archts., 88 Broad St., Boston, for 1 and 2 story, 35 x 140 ft. concrete, brick and steel laundry and kitchen building, rein.-con. flooring, concrete foundation, at State School, here.

R. I., Pawtucket—Hope Webbing Co., 1005 Main St., plans to build 5 story, 80 x 198 ft. concrete and brick addition to plant, also 1 story, 20 x 30 ft. boiler house. About $300,000 Perry & Whipple, Hospital Trust Bldg., Providence, engrs.

Industrial Works (Continued)

N. Y., Geneva—City Council appropriated $355,000 for new buildings at Experimental Sta.

N. Y, New York—Figge & Hutwelker, 627 West 40th St., having plans prepared by Henshein & McLaren, archts., 37 West Van Buren Ave., Chicago, for tank house. About $500,000.

Pa., Lewistown—Penasylvania Wire Glass Co., Pennsylvania Bldg., Phila., having plans prepared by F. A. Hayes, archt., Pennsylvania Bldg., Phila., for 1 story, 175 x 600 ft., concrete and brick plant, here.

Pa., Reading—W. G. Hollis Candy Mfg. Co., c/o F. Muhlenberg, archt., Flanders Bldg., Phila., having plans prepared for 4 story, 20 x 80 ft., brick factory, on Plum and Franklin Sts.

Va., Richmond—C. G. Mercer and R. C. Sutton, 218 North 9th St., plan to build 3 story, 40 x 50 x 150 ft garage, at 608-610 East Grace St. About $40,000. Private plans.

N. C., Canton—Champion Fiber Co. plans to build and equip 140 x 410 ft. paper mill, and 92 x 400 ft board mill, rein.-con., brick and steel. About $750,000 and $650,000 respectively

La., New Orleans—G. B. Matthews & Son, 412 South Front St., having plans prepared by M. H. Goldstein, archt., 305 Baronne St., for factory and warehouse, on Cortez, Telemachus and Scott Sts. About $250,000. Noted Nov. 4.

O., Cleveland—Continental Grocery Stores, Union Bldg., plan to build 3 story, rein.-con., brick and steel warehouse, rein.-con. flooring, brick and concrete foundation. About $75,000. L. M. Ridenour, pres. Private plans.

O., Cleveland—Natl. Carpet & Rug Mfg. Co., 1971 West 50th St., having plans prepared by Whitworth & Johnson, archts., 413 Engrs. Bldg., for 2 story, 40 x 123 ft., brick and steel factory, brick foundation, on Lorain Ave. About $50,000.

O., Cleveland—Telling-Belle-Vernon Co., c/o W. E. Telling, 3825 Cedar Ave., plans to alter dairy plant, rein.-con., brick and steel, rein.-con. flooring, on Eagle Ave. About $100,000. Christian-Schwarzenberg & Gaede, 1900 Euclid Ave., archts. and engrs.

O., Cleveland—W. S. Tyler Co., Superior Ave., had plans prepared by G. S. Bider & Co., archts. and engrs., Century Bldg., for 4 story, 60 x 260 ft., brick, steel and concrete factory addition, brick and concrete foundation. About $250,000.

Ind., Ft. Wayne—Ft. Wayne Union Stock Yard, Inc., purchased 35 acre site east of here, and plans to build stock yard. About $200,000. Address F. D. Gibson, genl. mgr.

Ind, Indiana Harbor—Lampagraph Co., Rialto Theatre Bldg., St. Louis, Mo., plans to build factory, here. About $200,000. G. M. Dobson, pres. Architect not selected.

Ind., Indianapolis—M. L. Carr, archt., Indianapolis, opens bids about April 1, building 2 story, 95 x 150 ft. slaughter house, brick, on bank of White River, for F. D Gardner & Co., 221 East Maryland St. About $100,000

Ind., Lafayette—Chamberlain Ice Cream Co., 5th and Alabama Sts., having plans prepared by Riedel & Zink, archts., Lafayette, for 2 story, 60 x 120 ft., rein.-con., brick and steel factory, rein.-con. flooring, on 5th St. About $100,000.

Ind., Lafayette—Lafayette Printing Co. having plans prepared by Riebel & Zink, archts., Lafayette, for 3 story, 80 x 100 ft. printing plant, rein.-con., brick and steel, rein.-con. flooring. About $150,000.

Ind., Linton—City having plans prepared by Shrouds, Stoner Co., archts., Tribune Bldg., Terre Haute, for 1 story, 75 x 100 ft., light plant, rein.-con., brick and steel, rein.-con. flooring. About $100,000.

Ind., Richmond—W. Stevens, city clk., opens bids about Dec. 15, building 1 story, 75 x 85 ft. light plant, concrete, brick and steel, rein.-con. flooring. About $175,000. J. D. Lyon, 2513 Union Central Bldg., Cincinnati, O., engr.

Ind., Valparaiso—Pioneer Truck Co. having plans prepared by Ronneberg, Pierce & Hauber, archts., 10 South La Salle St., Chicago, for 1 story, 300 x 600 ft., concrete, brick and steel factory, concrete foundation. About $500,000. Noted Aug. 26.

Mich., Detroit—Anchor Bldg. Co., c/o F. J. Winter, archt., 2331 Dime Bank Bldg., having plans prepared for 2 story, 50 x 100 ft. paint shop, brick and steel, brick foundation, on West Grand Blvd. About $50,000.

Ill., Chicago—Great Western Laundry, 2125 West Madison St., opens bids about Dec. 20, building 3 story, 95 x 170 ft., rein.-con. and brick laundry, concrete foundation. About $225,000. A. L. Himelblaw, 179 West Washington St., archt. Noted Jan. 1.

Ill., Chicago—A. S. Alshuler, archt., 28 East Jackson St., opens bids in January, building 2 story, 100 x 180 ft., rein.-con. and brick factory, concrete foundation, on 42d and Ogden Sts., for Turner Mfg. Co., 1444 South Sangamon St. About $200,000.

Ill., Fairfield—Sexton Mfg. Co. having plans prepared for 2 story, 100 x 107 ft., brick, machine shop. About $40,000. W. E. Felix, archt.

Wis., Hartford—Hartford Tool & Machine Co. plans to build 2 story, 60 x 150 ft., brick, rein.-con. and steel machine shop, rein.-con. flooring, brick foundation, on Main St. About $75,000. F. Jordan, mgr. Architect not selected.

Wis., Kenosha—Kenosha Ice Cream Co., 493 Elizabeth St., having plans prepared by C. Augustine, archt., Kenosha, for 2 story, 46 x 75 ft., concrete and brick factory, rein.-con. flooring, concrete foundation, on Grand Ave.

Wis., Kewaunee—Wisconsin Shipbuilding & Navigation Co. plans to construct several 1 story buildings. About $200,000. J. W. Barber, 345 35th St., Milwaukee, interested Probably private plans.

Wis., La Crosse—Mathews Mfg. Co., c/o W. Mathews, Rocky River, O., plans to build 2 story, 125 x 300 ft., steel and frame factory, here. About $100,000. Private plans.

Wis., Milwaukee—See "Buildings."

Wis., Peshtigo—Oconto Serv. Co. plans to build addition to power house. T. A. Pamperin, pres. Mead & Seastone, Madison, engrs.

Wis., Sheboygan—Hand Knit Hosiery Co., 14 Huron St., plans to build 2-4 story, 60 x 250 ft., brick, rein.-con. and steel factory, brick foundation, on 14th St. About $100,000. H. Chesebro, pres. Architect not selected.

Wis., Stevens Point—Farmers Tractor Corp., 80 State St., Oshkosh, plans to build 4 story, brick, rein.-con. and steel factory, brick foundation, on Patch St., here. About $150,000. J. Mainland, pres. Architect not selected.

Wis., Watertown—Badger Concrete Mixer Co., 221 Grand Ave., Milwaukee, plans to build 1 story, 80 x 200 ft., brick and steel factory, rein.-con. flooring, concrete foundation, here. Architect and engineer not selected.

Ia., Ft. Madison—Hinde & Dauche Co. plans to build paper mill. About $100,000.

Minn., Minneapolis—L. C. Apt, pres. Apt. Investment Co., 226 Marquette Ave., receives bids about Dec. 20, building 2 story, 100 x 100 ft. rein.-con. and brick garage on Nicollet Ave. and 19th St. About $50,000. S. J. Bowler, 617 Phoenix Bldg., archt.

Minn., Minneapolis—State Bd. Control, Capitol Bldg., St. Paul, plans to build mines experiment station, at State University, here, 2 or 3 story, rein.-con. and brick. About $250,000. C. H. Johnston, 715 Capitol Bank Bldg., St. Paul, archt.

Mo., Kansas City—White Co., East 79th St. and St. Clair Ave., had plans prepared by Watson Eng. Co., archts. and engrs., Hippidrome Bldg., Cleveland, for 3 story, 120 x 144 ft. auto service station, rein.-con., brick and steel, rein.-con. flooring, brick and concrete foundation, on 28th and Warwick Sts. About $250,000.

Ark., Springdale—Welch Grape Juice Co. plans to build factory About $500,000. Architect not selected.

Tex., Dallas—Oliver Chilled Plow Wks., 811-13 Elm St., having plans prepared and receives bids in January, building 10 story, 142 x 200 ft., brick, rein.-con. and steel factory and office, rein.-con. flooring, concrete foundation, on Market, Collin and Jefferson Sts. About $600,000. Lang & Witchell, Amer. Exch. Natl. Bank Bldg., archts.

Tex., Dallas—Undertakers Co-operative Casket Mfg. Co. plans to build factory. About $300,000. C. F. Weiland, 517 North Ervay St., organizer.

Okla., Picher—Lead & Zinc Co. plans to build rein.-con warehouse, rein.-con. flooring. About $100,000. J. McNichols, mgr. Private plans.

Wash., Tacoma—City plans to construct 2 story, 100 x 200 ft., warehouse, supply and shop building, rein.-con., rein.-con. flooring. About $75,000.

Cal., Los Angeles—Coast Envelope Co., Higgins Bldg., plans to construct 2 story, 140 x 160 ft. rein.-con., Class "A" construction factory on Sante Fe Ave. and Jesse St.

Que., Montreal—Canadian Welding Co., Amherst St. near Ontario St., plans to build plant on St. Timothee St. About $60,000.

Que., Montreal East—Dominion Carriage Co., Marien Ave., plans to build 4 story brick and steel addition to plant here. About $50,000. F. Arthur, mgr.

BIDS DESIRED

Mass., Worcester—A. F. Gray, archt., 53 State St., Boston, receiving bids building 2 story, 87 x 123 ft. concrete brick and steel garage, rein.-con. flooring, concrete foundation, on Murray Ave. and Wellington St., for Conroy Motor Co. About $100,000 Noted Nov. 4.

N. J., Ridgefield—Until Dec. 6, by W. B. Wills, Inc., archts. and engrs., 1181 Myrtle Ave., Brooklyn, building (revised plans) 2 story, 100 x 500 ft., rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Grand Ave. and Hall St., here, for Continental Paper Box Co., 122 Washington St., Brooklyn. About $250,000. Noted Nov. 18.

Pa., Bethayres—C. B. Keen, archt., 1218 Chestnut St., Phila., receiving bids building 1 story, 150 x 250 ft., concrete and brick factory, here. Owners name withheld.

Pa., West Brownsville—Until Dec. 9, by J. R. Herbertson, building 2 story, 84 x 123 ft., brick and concrete garage. About $80,000. E. R. Johnson, Uniontown, archt.

Fla., Hastings—United Sugar Corp., 1512 Walnut St., Phila., receiving bids building sugar refinery, twelve, 1 story (4 room) houses, ½ mi. spur track, etc., 3 mi. west of here. About $1,000,000. G. P. Anderson, 1512 Walnut St., Phila., engr. Noted May 20.

O., Youngstown—Until Dec. 8, by Bd. Educ., 14 Wood St., building and installing equipment in heating and ventilating plant for Raven High School. About $40,000. S. R. Creps, 527 New Court St., dir. of schools. C. F. Owsley, 1301 Mahoning Bank Bldg., engr.

Mo., St. Louis—St. Louis Paper Can & Tube Co., 4400 North Union Ave., receiving bids building 1 story, 100 x 900 ft. steel factory, on Big Bend Rd. along tracks of Missouri Pacific R.R. About $100,000. Private plans.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Mansfield**—Chocolate Refiners Inc., 427 Commercial St., Boston, will build 2 story, 80 x 240 ft. brick and mill construction storehouse. About $150,000. Work will be done by day labor.

★**Mass., Worcester**—Grocers Bread Co., c/o L. S. Beardsley, archt. and engr., 116 West 39th St., New York City, let contract building brick and steel plant, rein.-con. flooring, concrete foundation, on Main St., to J. M. and C. J. Buckley, 128 Vernon St. About $60,000. Noted Sept. 9.

★**R. I., Providence**—Autocar Sales & Service Co., 302 Pearl St., let contract building 3 story, 46 x 79 ft. concrete, brick and steel service station, rein.-con. flooring, concrete foundation, on Pearl and Rice Sts., to F. L. Pierce, 74 Weybosset St. About $50,000.

R. I., Providence—L. E. Danforth, 76 Dorrance St., will build 1 story, 110 x 150 ft. concrete and brick garage, rein.-con. flooring, concrete foundation, on Byfield St. About $50,000. Work will be done by day labor.

★**Conn., Norwalk**—Leroy Shirt Co., 114 5th Ave., New York City, let contract building 2 story, 65 x 200 ft. brick and steel plant, concrete foundation, on Chestnut St., here, to T. S. Pardy Constr. Co., 1481 Seaview Ave., Bridgeport. About $80,000.

Industrial Works (Continued)

★**Conn., Windsor**—A. W. Lovell, Windsor Ave., let contract buildings 1 story, 100 x 146 ft. iron and timber garage, rein.-con. flooring, concrete foundation, on Central St., to E. Swanson, Windsor.

★**N. Y., Brooklyn**—J. Polivnick, 267 Barrett St., will build 2 story, 95 x 95 ft., rein.-con., brick and steel garage, rein.-con. flooring, concrete foundation, on South 4th St. between Drigg Ave. and Roebling St. About $125,000. Work will be done by day labor.

★**N. Y., Poughkeepsie**—Walters Motor Co. let contract building 1 story, 100 x 300 ft., brick and steel factory, brick foundation, to H. K. Ferguson Co., 6523 Euclid Ave., Cleveland, O. About $100,000.

★**N. Y., Sheepshead Bay** (Brooklyn P. O.)—C. A. Benoit, Jerome Ave., let contract building chemical factory, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to Gretsch Eng. Corp., 102 Park Ave., New York City. About $150,000. Former contract rescinded. Noted Sept. 30.

★**N. Y., Tonawanda**—Stanley Steel Welded Wheel Corp., 40 Court St., Boston, let contract building 1 story, 90 x 200 ft., rein.-con. and steel factory, rein-con. flooring, concrete foundation, to J. W. Cowper, Fidelity Bldg., Buffalo. About $100,000. Noted Oct. 14.

★**N. Y., Utica**—Utica Spinning Co., Whitesboro St., let contract building 3 story addition to factory, brick and steel, rein.-con. flooring, concrete foundation, to Foundation Co., Woolworth Bldg., New York City. About $200,000.

★**N. Y., Yonkers**—Hudson Tire & Rubber Corp., Proctor Bldg., let contract building 3 story, concrete and steel factory, on Nepperhan Ave., to J. Mitchell, Inc., 76 Montgomery St., Jersey City. About $300,000. Noted Sept. 16.

★**N. J., New Brunswick**—Arctic Ice Co., 56 French St., let contract building storage plant, 3 story, 50 x 100 ft., to N. A. Bugbee Co., 206 East Hanover St., Trenton. About $75,000.

★**Pa., Cresson**—Penn-Cress Ice Cream Co. let general contract building 2 story, 50 x 90 ft. plant, brick and steel, rein.-con. flooring, on Park Ave., to E. A. Wehr, Highland Bldg., Pittsburgh. About $50,000. Noted Nov. 4.

★**Pa., Nanticoke**—Genl. Cigar Co., c/o A. Freeman, archt and engr., 29 West 34th St., New York City, let contract building 3 story, 90 x 155 ft., rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation, here, to Nanticoke Constr. Co., Nanticoke. About $140,000. Noted Nov. 18.

★**Pa., Pittsburgh**—Pittsburgh Truck Mfg. Co., 609 Neville St., will build garage and repair shop, 2 story, 100 x 100 ft., on 44th St. and along tracks of Pennsylvania R.R. About $75,000. Work will be done by day labor. Noted Nov. 11.

★**Md., Amcelle** (Baltimore P. O.)—Amer. Cellulose & Chemical Mfg. Co., Ltd., 681 5th Ave., New York City, let contract building 1 story, rein.-con. and brick plant, concrete foundation, here, to G. A. Fuller Co., 175 5th Ave., New York City. About $200,000.

★**W. Va., McDonald**—New River Co. let contract building 1 story, 90 x 122 ft. warehouse and 100 x 220 ft. machine shop, brick and steel, to Austin Co., 16112 Euclid Ave., Cleveland, O. About $150,000.

★**O., Canton**—Wheeling & Lake Erie R. R., Electric Bldg., Cleveland, let contract building 1 story, 10 stall, round house, brick and steel, brick foundation, at Gambrines Yards, here, to C. R. Cummins Co., 1305 Swetland Bldg., Cleveland. About $200,000.

★**O., Cleveland**—Amer. Steel & Wire Co., c/o H. R. Klepinger, Western Reserve Bldg., will build 1 story, 53 x 134 ft., rein.-con., brick and steel boiler house, rein.-con. flooring, brick and concrete foundation, on East 40th St. and Lakeside Ave. About $75,000. Work will be done by day labor.

★**O., Cleveland**—Cleveland Folding Bed Co., 2554 East 55th St., let contract building 2 story, 70 x 70 ft., brick and steel factory, brick foundation, at 3740 Central Ave., to L. Goodman, 1005 Ansel Rd. About $40,000. Noted Sept. 16.

★**O., Jewett**—Wheeling & Lake Erie R.R., Electric Bldg., Cleveland, let contract building 1 story, 6 stall roundhouse, brick and steel, brick foundation, here, to Lake Erie Constr. Co., Hickox Bldg., Cleveland. About $75,000.

★**O., Mt. Vernon**—C. and G. Cooper Co., 11 Bway., New York City, let contract constructing several 1 and 2 story, foundry and machine shop buildings, rein.-con. and steel, rein.-con flooring, concrete foundations, here, to D. P. Robinson & Co., Inc., 125 East 46th St., New York City. About $400,000.

★**Ill., Chicago**—J. T. Ryerson & Son, 16th and Rockwell Sts., let contract building 1 story, 125 x 125 ft., concrete and steel garage, concrete foundation, to A. L. Thompson & Co., 139 North Clark St. About $100,000.

★**Ill., Chicago**—Union Bed & Spring Co. let contract remodeling 3 story, 125 x 600 ft. warehouse into factory, on 44th and Colorado Sts., to Gerhard & Meyne, 127 North Dearborn St. About $150,000.

★**Ill., Chicago**—Weiland Dairy Co. let contract building 1 and 2 story, 140 x 150 ft., rein.-con. and brick dairy, concrete foundation, at 3014-28 5th Ave., to Behrens Constr. Co., 2149 North Talmon Ave. About $125,000.

★**Ill., Elgin**—Sweet Spot Confectionery Co. let contract building 2 story, 70 x 80 ft., brick and mill construction plant, to L. E. Palm and A. McTavish, Elgin. About $40,000.

★**Wis., Granville**—T. J. Moss Tie Co., Security Bldg., St. Louis, Mo., let contract constructing 1 story, 40 x 200 ft. steel, creosoting plant, to include 3 buildings, also 30 x 40 ft., concrete and brick boiler house, to J. L. Stanage, 111 Oneida St., Milwaukee. Noted Nov. 18.

★**Wis., Janesville**—N. D. Bingham let general contract building 1 story, 50 x 122 ft furniture warehouse, to Willis & Deason, Hayes Bldg. About $50,000.

★**Minn., Minneapolis**—Green Mountain Investment Co. will build 6 story, 150 x 200 ft. rein.-con. and brick warehouse, at 724-36 Washington Ave. N. About $250,000. Work will be done by day labor. Address W. F. Andrews, 322 South 4th St.

★**Kan., Baxter Springs**—General Amer. Oil Co., 604 New 1st Natl. Bank Bldg., Tulsa, Okla., will build 1 story oil refinery, in southeastern section of this town. About $100,000. Work to be done by day labor under supervision of J. Pearl, supt.

Buildings

PROPOSED WORK

N. H., Concord—Club—Knights of Columbus, 45 Pleasant St., having plans prepared by G. S. Forrest, archt., 20 Pleasant St., for 2 story, 75 x 85 ft., brick, concrete and steel addition.

N. H., Manchester—School—Bd. Educ. having plans prepared by W. M. Butterfield, archt., 801 Beech St., for 2 story brick. About $75,000.

Mass., Amherst—College—Amherst College plans to remodel church and construct 3 story dining room building, on campus. About $300,000. Architect not announced.

Mass., Boston—Hospital—Boston City Hospital, 818 Harrison Ave., plans to build Thorndike Memorial Hospital, 3 story, 60 x 125 ft. brick and concrete, on East Concord St. About $350,000. Maginnis & Walsh, 100 Boylston St., Boston, archts.

Mass., Boston—Restaurant—E. S. Eaton & Sons, 219 Washington St., plan to build 5 story, brick, stone and concrete addition. Project will mature in spring. S. D. Kelley, 46 Cornhill, archt.

Mass., Dorchester (Boston P. O.)—School—Schoolhouse Dept., City Hall Annex, Boston, had plans prepared by H. H. Atwood, archt., 61 Aban St., for Roger Wolcott School, 3 story, concrete, brick and steel, rein.-con. flooring, concrete foundation. About $400,000.

Mass., Lynn—Club—Knights of Pythias, 23 Central Ave., plan to build 2 or 3 story, 90 x 180 ft. brick and stone. About $175,000. E. F. Earp, 333 Union St., archt.

Mass., Lynn—Temple—Masonic Society plans to build brick and stone, on Broad St. Cost between $100,000 and $125,000. W. G. Upham, 15 Marion Ave., Norwood, archt.

Mass., Newton (Boston P. O.)—Science—Boston College, Chestnut Hill, plans to build 3 story, brick, steel and stone, on College Rd. About $375,000. Maginnis & Walsh, 100 Boylston St., Boston, archts.

Mass., North Adams—School—City plans to build 2 story, brick and steel, on State St. About $125,000. Architect not selected.

Mass., Roxbury (Boston P. O.)—Nurses Home—Childrens Hospital, 300 Longwood Ave., plans to build 3 story nurses home and servants quarters, concrete, brick and steel, rein.-con. flooring, concrete foundation. About $600,000. Coolidge & Shattuck, 122 Ames Bldg., Boston, archts. Noted Oct. 7.

Mass., Springfield—Hall—McEnellys Orchestra, Summer Ave., plans to build 1 story, 75 x 150 ft., cement and steel, concrete foundation. Project will mature in spring. About $75,000. Associate Architectural & Eng. Co., 145 State St., archts.

Mass., Williamstown—School—Town plans to build 2 story, brick and steel, on School St. About $150,000. T. M. Banks, chn. building com. Harding & Seaver, 7 North St., Pittsfield, archts.

Mass., Worcester—College—Assumption College, Assumption Ave., plans to build brick, stone and steel addition. About $500,000. Architect not announced.

R. I., Providence—Hospital—Homeopathic Hospital of Rhode Island, 62 Jackson St., having plans prepared by Kendall, Taylor & Co., archts., 93 Federal St., Boston, for 3 story, brick addition on Chalkstone Ave. About $150,000.

Conn., Bridgeport—Church—Bethany Congregational Church plans to build 1 story, brick and steel, on North Main and Thorne Sts. About $75,000. M. M. Dunklee, 210 Fairview Ave., pastor. Architect not selected.

Conn., New Britain—Nurses Home—New Britain General Hospital, 92 Grand St., having plans prepared by Scopes & Feustmann, archts., 64 Main St., Saranac Lake, N. Y., for 3 story, concrete, brick and steel, rein.-con. flooring, concrete foundation, on Grand St. About $100,000. Noted Oct. 7.

Conn., New Britain—School—City plans to build fireproof school. About $1,000,000. F. N. Gaffney, chn. School Comn. Guilbert & Betelle, 665 Broad St., Newark, N. J., archts.

Conn., New Britain—School—State School Bd., State Capitol, Hartford, having sketches made for normal school and dormitory, here. About $900,000.

Conn., Thompsonville—School—Town of Enfield rejected bids received Nov. 18, building 2 story, 8 room, concrete, brick and steel rein.-con. flooring, concrete foundation, on North Main St. I. A. Allen, Jr., archt., 904 Main St., Hartford, revising plans and will take new figures from selected list of bidders. About $130,000. Noted Nov. 4.

N. Y., Albany—Hotel—J. D. Keeler, c/o Warren & Wetmore, archts. and engrs., 10 East 47th St., New York City, soon receives bids building 14 story, brick, steel and stone, concrete foundation, on Bway., here. Noted Jan. 29.

N. Y., Buffalo—Schools—Bd. Educ. opens bids about Jan. 2, building 3 brick and stone, brick foundations. About $200,000 each. Private plans.

N. Y., New York—Bank and Office—Bowery Savings Bank, Bowery and Grand St., plans to build 20 story, 105 x 200 ft., brick, steel and stone, concrete foundation, on East 42nd St. About $1,000,000. Architect not selected.

N. Y., New York—Convent—Our Lady of Perpetual Health Catholic Church, c/o E. Lynch, archt. and engr., 341 5th Ave., soon receives bids building 3 story, brick and stone, brick foundation, on 5th Ave. and 59th St. About $100,000.

N. Y., New York—Institution—Society for Prevention of Cruelty to Children, 83 Irving Pl., having sketches made by Maynicke & Franke, archts. and engrs., 25 East 26th St., for brick, steel and stone, concrete foundation, on 5th Ave. between 104th and 105th Sts. About $3,000,000.

N. Y., New York—Theatres—M. Klaw, Inc., 1451 Bway., having sketches made by De Rosa & Pereera, archts. and engrs., 110 West 40th St., for 2 brick, stone and steel, concrete foundations, on 46th St. near 8th Ave. About $650,000.

N. Y., Rochester—Home—Knights of Columbus, 700 Main St. E., plan to build new home. About $400,000. J. M. O'Grady, pres. Architect not selected.

N. J., Bayonne—Church—St. Johns Roman Catholic Church plans to build 3 story, 67 x 167 ft., brick and stone. About $187,000. R. A. Schumann, 932 Lamberton St., archt.

Buildings (Continued)

N. J., Madison—High School—Bd. Educ. having plans prepared by Guilbert & Betelle, archts., 2 Lombardi St., Newark, for 20 room high school, here. About $300,000. Noted Jan. 15.

N. J., Trenton—Hospital—W. McKinley Memorial Hospital, Brunswick Ave., plans to build wing. About $100,000. N. A. K. Bugbee, 206 East Hanover St., chn.

Pa., Jeanette — High School — Bd. Educ. receives bids in January, building 2 story, 125 x 225 ft., brick and steel, rein.-con. flooring. About $200,000. W. J. Peoples, Monongahela Bank Bldg., Pittsburgh, archt. Noted Aug. 12.

Pa., Johnstown—Church—Hebrew Reform Church, care of E. Rothstein, 246 Main St., plans to build church. About $100,000. Architect not selected.

Pa., Phila.—Bank and Office—Market St. Textile & Trust Co., c/o A. Wilson, Jr., 52nd and Market Sts., having plans prepared by W. L. Blithe, archt., 608 Chestnut St., for 2 story, 90 x 120 ft. addition, concrete, brick and steel. About $100,000.

Pa., Phila.—School—St. Gabriel Roman Catholic Church, 20th and Dickinson Sts., having plans prepared by E. G. Perrot, archt., 801 Parkway Bldg., for 3 story, 38 x 127 ft., brick. About $100,000.

Pa., Pittsburgh — University — Duquesne University, Bluff and Colbert Sts., having preliminary plans prepared by C. Strong, archt., Union Bank Bldg., for new law school, dormitoies, library and chapel. About $1,000,000.

Pa., State College—Clubhouse—Pennsylvania State College plans to build brick clubhouse. About $120,000. Architect not selected.

Pa., Wellsboro—Theatre—O. P. Roberts & Son, Bache Bldg., plan to build 2 story, 75 x 120 ft., rein.-con., brick and steel, on Main St. About $75,000. H. Spann, 52 West Chippewa St., Buffalo, N. Y., archt.

Pa., Williamsport—Y. M. C. A., 343 West 4th St., had preliminary plans prepared by Bldg. Bureau, 347 Madison Ave., New York City, for 8 story, rein.-con., brick and steel, on 4th and Elmira Sts., here. About $450,000. F. A. Messler, genl. secy.

Md., Baltimore—Office—L. Hurwitz, 248 Equitable Bldg., plans to build 8 story, 45 x 200 ft. brick and stone, at 219 Courtland St. About $500,000. J. Freund, 1307 St. Paul St., archt.

Md., Baltimore — School — City soon receives bids building 3 story, 125 x 150 ft., brick and steel, concrete foundation, on 33rd St. and Hillen Rd. About $350,000. C. N. Friz, 2010 Lexington Bldg., archt. C. L. Reeder, Park Ave. and Saratoga St., engr.

D. C., Wash.—Memorial—Knights of Columbus plan to construct 2 story stone memorial building to contain club house and auditorium. About $5,000,000. Maginnis & Walsh, 100 Boylston St., Boston, archts.

N. C., Greensboro—Schools—City election Jan. 18 to vote on $1,000,000 bonds to build and equip schols.

Fla., Miami—Exchange—Southern Atlantic Telephone & Telegraph Co. soon lets contract building 2 story (foundation for 3 story), 80 x 108 ft., concrete and brick, rein.-con. flooring, on 10th Ave. About $100,000.

Miss., Tunica—Court House—Tunica Co. receives bids about Feb. 1, building 3 story, 70 x 84 ft. About $180,000. F. P. Gates Co., archts.

Tenn, Nashville—Memorial—State, City and Davidson Co. plan to construct memorial building facing Capitol. About $2,000,000. Architect not selected.

O., Cincinnati—Theatre—B. Heidingsfeld, agt., 1406 Union Trust Bldg., has obtained option on site on McMillan and Manlose Aves., on which to build 145 x 300 ft. theatre. About $500,000. Owners name withheld.

O., Cleveland—Commercial—The Eighty-sixth Hough Co., c/o F. S. Jones Guardian Bldg., plans to build 3 story 46 x 150 ft. concrete, brick and steel, brick and concrete foundation on Hough Ave. and Crawford Rd. About $150,000. Architect not selected.

O., Cleveland—Commercial, etc.—B. Feniger, Society for Savings Bldg., plans to construct 2 story commercial building and garage, brick and steel, brick foundation, at 11462 Euclid Ave. About $250,000. Architect not selected.

O., Cleveland — Commercial — Frankel Bros. Co., Guardian Bldg., plans to build 3 story, brick and steel, brick foundation, on East 65th and Euclid Ave. About $150,000. Private plans.

O., Cleveland — Commercial — Gasser Bldg. Co., 1006 Euclid Ave., plans to build 3 story, 67 x 71 ft., brick and steel, brick foundation, on Huron Rd. and East 4th St. About $75,000. Architect not selected.

O., Cleveland—Commercial—LaRoth-Keller Co., c/o H. Laronge, 10405 Parkgate Ave., N.E., plans to build 12 story, 146 x 166 ft., rein.-con., brick and steel, rein.-con. flooring, brick foundation, on West 2d St. and St. Clair Ave. About $1,500,000. Architect not selected.

O., Cleveland — Commercial — Oriental-Amer. Bldg. Co., 1514 Euclid Ave., plans to build 4 story, 47 x 142 ft., rein.-con., brick and steel, rein.-con. flooring, brick and concrete foundation, at 1618 Euclid Ave. About $150,000. Allen-Osborn Co., Rose Bldg., archts.

O., Cleveland—Commercial—Windsor-East 40th Co., c/o W. J. Lewis, Williamson Bldg., plans to build 2 story, rein.-con., brick and steel, rein.-con. flooring, brick and concrete foundation, on East 40th St. and Windsor Ave. About $200,000. Architect's name withheld.

O., Cleveland—Office—Cleveland Bar Assn., c/o J. J. Sullivan, Williamson Bldg., plans to build 12 story, rein.-con., brick and steel, rein.-con. flooring, brick foundation. About $1,500,000. Architect not selected.

O., Cleveland—School—Temple Center Congregation, c/o C. C. Colman, archt., 1900 Euclid Ave., having plans prepared for 2 story, 70 x 200 ft., rein.-con., brick and steel, rein.-con flooring, brick and concrete foundation, on East 105th St. and Ansel Rd. About $200,000.

O, Cleveland—Theatre and Office—B. F. Keith Theatre Co., care of Rapp & Rapp, archts, 190 North State St., Chicago, having plans prepared for 21 story, 132 x 300 ft., rein.-con., brick, steel, terra cotta and granite, rein.-con. flooring, concrete foundation, to have 3,600 seating capacity. About $3,500,000. (Bids have been received on structural steel.) Noted Sept. 2.

O., Dayton—Store—J. F. Gallaher, West 3rd St., plans to remodel 4 story, 20 x 180 ft., rein.-con. and brick, on South Main St. About $75,000. Architect not selected.

O., Lakewood (Cleveland P. O.)—Commercial—J. W. Chrisford of Chrisford Constr Co., Lake Ave., plans to build 3 story brick and steel, brick foundation, on Detroit Ave. opposite Lincoln Ave. About $100,000. Private plans.

O., Maple Heights (Bedford P. O.)—School—City voted $250,000 bonds to build 2 story, rein.-con., brick and steel, rein.-con. flooring, brick and concrete foundation. W. M. Blanchard, pres. Architect not selected.

O., Northfield—Home—Central Friendly Inn, c/o A. Cushman, Central Ave. and Bway., Cleveland, plans to build 3 story boys' home, rein.-con., brick and steel, rein.-con. flooring, brick and concrete foundation, here. About $150,000. Architect not selected.

O., Youngstown—Store—Strauss-Hirshberg Co., West Federal St. plans to build 2 story, 300 x 300 ft. About $2,000,000.

Ind., Ft. Wayne—Office and Store—Kilbourne & Perry, Utilities Bldg., having plans prepared by G. Mahurin, archt., 124 West Jefferson St., for 2 story, 60 x 141 ft., brick, rein.-con. flooring. About $90,000.

Ind., Indianapolis—Hotel—Lincoln Hotel Co., Kentucky Ave. and Washington St., having plans prepared by Rubush & Hunter, archts., 430 Amer. Central Life Bldg., for 8 story, 75 x 100 x 100 ft. addition, rein.-con., brick, stone, steel and terra cotta, rein.-con. flooring. About $750,000.

Ind., Ridgeville — School — Township Trustee opens bids about Dec. 20, building 2 story, 7 room, 97 x 124 ft., brick. About $125,000. Bass, Knowlton & Graham, 801 Hume-Mausur Bldg., Indianapolis, archts.

Ind., Terre Haute—Hospital—Union Hospital, 7th and 8th Ave., having plans prepared by Johnson, Miller & Miller, archts., 105 South 7th St., for 6 story, 44 x 200 ft., rein.-con., brick, steel and stone, rein.-con. flooring, concrete foundation. About $300,000.

Mich., Benton Harbor—Hotel—Washington Hotel & Mineral Bath plans to build 3 story, 200 x 300 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $500,000. A. Bennett and W. Gibb, 117 North Dearborn St., Chicago, archts.

Mich., Detroit—Clubhouse — Fellowcraft Club, c/o F. E. Holmes, 70 Washington Blvd., purchased site and plans to build 3 story, 150 x 207 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on 2d Blvd. About $2,000,000. Architect's name withheld.

Mich., Detroit—Temple and Office—Detroit Federation of Labor, c/o F. X. Martel, 77 East Adams St., plans to build 10 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on East High St. Plans for first 2 stories to be made at once. About $300,000. Architect not selected.

Mich., Flint—School—St. Michaels Parish plans to build 3 story, rein.-con., brick and steel, rein.-con. flooring. About $500,000. Architect not selected.

Mich., Ironwood—School—Bd. Educ. receives bids about Dec. 15, building 2 story, brick, steel and stone, rein.-con. flooring, concrete foundation. About $150,000. C. J. Anderson, Ironwood, archt.

Mich., Pontiac—Hotel—J. H. Appeldorn, archt. and engr., 224 West 57th St., New York City, preparing plans for brick, steel and stone hotel for women, concrete foundation, here. About $200,000. Owner's name withheld. Noted July 22.

Ill., Alton—Hospital—St. Joseph's Hospital having plans prepared by L. Pfeiffenberger Sons, archts., for hospital. About $300,000.

Ill., Cicero—High School—J. C. Llewellyn, archt., 38 South Dearborn St., Chicago, opens bids about Dec. 10, building 2 story, rein.-con. and brick addition, rein.-con. flooring, concrete foundation, for J. Sterling Morton High School, here. About $100,000.

Ill., Elmhurst—Library—Elmhurst College having plans prepared by W. C. Jones, archt., 30 North La Salle St., Chicago, for 1 story, 50 x 100 ft., rein.-con. and brick, concrete foundation. About $75,000.

Ill., Harrisburg—High School—Bd. Educ. opens bids about Jan. 1, building 2 story, 120 x 122 ft., brick and stone, concrete flooring. About $150,000. H. E. Boyle, Furniture Bldg., Evansville, Ind., archt.

Ill., Paris—Hotel—Nicol, Scholer & Hoffman, archts., Lafayette, Ind., opens bids about Jan. 15, building 4 story, 80 x 80 ft., brick, stone and steel, rein.-con. flooring, for Paris Hotel Co., here. About $175,000.

Ill., Urbana—School—A. Bennett, archt., 117 North Dearborn St., Chicago, soon lets contract building 2 story, 50 x 150 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, for 1st Christian Church, here. About $80,000.

Wis., Antigo—High School—Bd. Educ. having preliminary plans prepared for junior high school, 2 story, rein.-con. and brick. About $100,000.

Wis., Beaver Dam—Hospital—Beaver Dam Hospital Assn. plans to build 5 story, 60 x 180 ft., brick, rein.-con. and steel, brick foundation. About $100,000. A. C. Friday, chn. Architect not selected.

Wis., Beloit—Bank—Weary & Alford, archts., 1732 South Michigan Ave., Chicago, opens bids about Dec. 15, building rein.-con., brick and stone, rein.-con. flooring, concrete foundation, for Beloit State Bank.

Wis., Horicon—High School—Bd. Educ. plans to build 2 story, 60 x 185 ft., rein.-con. and brick, concrete foundation, on Main St., to replace one destroyed by fire. About $75,000. Architect not selected.

Wis., Madison—Church—Lutheran Memorial Church, 411 North Lake St., had plans prepared by Claude & Starck, archts., 1-2 Badger Annex, for 3 story, 55 x 125 ft., rein.-con., brick and stone, on University Ave. About $75,000. A. J. Soldan, pastor.

Wis., Manitowoc — Hotel — Manitowoc Hotel Realty Co., having plans prepared by H. B. Kamschulte, archt., North 8th St., for addition, at 825-8th St. S. About $500,000. W. C. Loeggering, Forest Ave. Hotel, 170 Forest Ave. Fond du Lac, interested. Noted July 8.

Wis., Marshfield — Church — Methodist Church, 205 East 3rd St., had plans prepared and receives bids early in spring.

Buildings (Continued)

building 2½ story, 83 x 88 ft., brick, rein.-con. and steel, brick foundation, on 3rd St. About $75,000. F. J. Jordan, chn. W. L. Alban, Endicott Bldg., St. Paul, Minn., archt. Noted Oct. 28.

Wis., Milwaukee—Business—L. Leidersdorf Co., 417 Sycamore St., having plans prepared by Buemming & Guth, archts. and engrs., 521 Jackson St., for 3 story, 50 × 150 ft., mill construction, concrete foundation, on Clybourn St. About $75,000.

Wis., Milwaukee—Hospital, etc.—Milwaukee Childrens Hospital, 219 10th St., having preliminary plans prepared by Scott & Mayer, archts. and engrs., Colby-Abbot Bldg., for rein.-con. and brick hospital and power plant, rein.-con. flooring, concrete foundation, on Grand Ave. About $450,000.

Wis., Milwaukee—Theatre—Rosman & Wierdsma, archts. and engrs., 424 Jefferson St., open bids about Dec. 8, building 1 story, 62 x 120 x 134 ft., concrete and brick, rein.-con. flooring, concrete foundation, on Lisbon Ave., for W. Sarres, Majestic Bldg. About $75,000. Noted Nov. 11.

Wis., Moswill—City Hall and Fire Station—Village Bd. having plans prepared by Oppenhamer & Obel, archts., Wausau, for 2 story, 70 x 140 ft., rein.-con., brick, steel and tile, rein.-con. flooring, concrete foundation, on Main St. About $75,000.

Wis., New London — Church — Lutheran congregation, c/o A. Spiering, 720 Lawrence St., having plans prepared by V. Thomas, archt., 808 South Pearl St., for 2 story, 70 x 85 ft., rein.-con., brick, steel and tile, concrete foundation, on Pearl St. About $75,000.

Wis., Oconto — Clubhouse — B. P. O. E. Lodge, c/o G. Beyer, plans to build 3 or 4 story, 60 x 150 ft., rein.-con., brick and steel, brick foundation, on Main St. About $100,000. Architect not selected.

Wis., Oshkosh—Bank and Office—City Natl. Bank, Main St., having preliminary plans prepared by R. Messmer & Bro., archts., Majestic Bldg., Milwaukee, for 4 story, 60 x 100 ft., concrete and brick, rein.-con. flooring, concrete foundation, on Main St. About $225,000.

Wis., Stevens Point—Hotel—Stevens Point Hotel Co. plans to build 5 story, 217 x 250 ft., brick, rein.-con. and steel, brick, foundation, on Clark and Strong Sts. About $200,000. F. L. Body, secy. Architect not selected.

Wis., Stevens Point—Lodge—Loyal Order of Moose, Lodge No. 1572, 742 Church St., plans to build 3 story, 60 x 120 ft. About $125,000. N. Miller, secy Architect not selected.

Wis., Superior—Gymnasium—W. J. Little, secy., Bd. Normal School Regents, opens bids about Jan. 2, building 2 story, 150 x 265 ft., rein.-con., brick, steel and stone, rein.-con. flooring, concrete foundation. About $300,000. Architect and engineer not selected.

Wis., Wausau—Bank and Office—Amer. Natl. Bank, 502 3rd St., plans to build 6 story, rein.-con., brick and stone. About $300,000. C. S. Gilbert, pres. Architect not selected.

Wis., Wausau—Club—Elks Lodge plans to build 3 story, 62 x 115 ft., rein.-con. and brick. About $150,000. O. Eggebrecht, secy.

Wis., Wausau—Hospital—St. Marys Hospital had plans prepared and receives bids in January, building 5 story, 44 x 145 ft., rein.-con. and brick addition, rein.-con. flooring. About $225,000. Oppenhamer & Obel, Wausau, archts.

Wis., Wisconsin Rapids—Store and Office—Nash Hardware Co. having plans prepared by A. F. Billmeyer, archt., Wood Bldg., remodeling and building 2 story, 40 x 100 ft., rein.-con., brick and tile addition. About $75,000. M. Nash, pres.

Ia., Cedar Rapids—Court House—Linn Co. election Dec. 27 to vote on $1,300,000 bonds to build court house. Architect not announced.

Ia., Davenport—Bank—Iowa Natl. Bank, 302 West 2nd St., having plans prepared by Temple & Burrows, archts., 208 Main St., for 8 story, 100 x 100 ft., brick, stone and steel. About $750,000.

Ia., Ft. Dodge—Exhibition—Hawkeye Fair Assn. plans to construct exhibition buildings for automobiles and poultry, also rebuild cattle barn. H. S. Stanberry, secy. Architect not announced.

Ia., Leon—Hospital—Decatur Co. voted $100,000 bonds to build hospital. Architect and engineer not selected.

Ia., Mason City—Home—Cerro Gordo Co. voted $75,000 bonds to build home. P. Weigand, aud. Architect not selected.

Ia., Reinbeck—High School—Bd. Educ. opens bids in January, building 2 story, 90 x 144 ft., brick and stone. About $225,000. Netcott & Netcott, 517-19 Black Bldg., Waterloo, archts. Noted March 25.

Ia., Sioux City — Poorhouse — Woodbury Co. voted $100,000 bonds to build poorhouse. W. M. Pritchard, aud.

Minn., Crosby — Church — Swedish Lutheran Congregation having plans prepared by H. S. Swanson, archt., 1st Natl. Bank Bldg., for 2 story, 40 x 72 ft. rein.-con. and brick. About $75,000.

Minn., Minneapolis—High School—State Bd. Control, Capitol Bldg., St. Paul, plans to build 2 story, rein.-con. and brick addition to University High School. About $100,000. D. F. Mullen, secy. C. H. Johnston, 715 Capitol Bank Bldg., St. Paul, archt.

Kan., Pratt — Temple — Mason Bldg. Assn. having plans prepared by S. S. Voigt, archt., 410 Barnes Bldg., Wichita, for 2 story, 48 x 124 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $100,000. Noted Oct. 28.

Kan., Weskan—School—Bd. Educ. having plans prepared by Mann & Gerow, archts., 722 Rorabaugh Wiley Bldg., Hutchinson for 2 story, rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $75,000. H. A. Noble, 411 Reliance Bldg., Kansas City, Mo., engr.

Neb., Pleasanton—School—Bd. Educ. plans to build school. About $90,000. S. A. Eaton, secy. Architect not selected.

Neb., Verdon—School—Bd. Educ. having plans prepared by H. D. Pampel, archt., Kansas City, Mo., for 2 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $75,000.

S. D., Mitchell—Schools—Bd. Educ. had plans prepared by Hugill & Finklehor, archts., Sioux Falls, for two schools, each 2 story, 109 x 150 ft., rein.-con., brick and tile. About $100,000 each. C. F. Tweed, 531 Metropolitan Bank Bldg., Minneapolis, Minn., engr.

Mont., Butte—School—School Dist. 1, Silver Bow Co., defeated $525,000 bond issue Nov. 13, to build school. Noted Nov. 4.

Mo., St. Louis — Church — H. W. Jones, archt., 5940 Easton Ave., receives bids in spring, building 2 story, 60 x 100 ft., ornamental pressed brick and white stone, rock foundation, at 5944 Easton Ave., for West Park Baptist Church, 5940 Easton Ave. About $100,000.

Tex., Beaumont—Auditorium and Library—City plans election to vote on $250,000 bonds to build auditorium and library. G. J. Roark, city mgr.

Tex., Dallas—Cathedral—Scottish Rite of Dallas, South Harwood and Cabell Sts., having plans prepared by H. M. Greene, archt., North Texas Bldg., for 3 story. Cost between $500,000 and $750,000.

Tex., Dallas — Office — See "Industrial Works."

Tex., Dallas—Office—Dallas Athletic Club having plans prepared and receives bids in January, building 10 story, rein.-con., on Elm and Ervay Sts. About $1,000,000. W. E. Greiner, pres. Lang & Witchell, Amer. Exch. Natl. Bank Bldg., archts.

Tex., Waco — Club House — Spring Lake County Club having plans prepared by M. W. Scott & Co., archts., 412½ Franklin St., for 2 story, 88 x 100 ft., rein.-con. and stucco, 5 mi. north of here. About $75,000.

N. B., St. John — School — School Bd. Comn. soon receives bids building 3 story, brick and steel, on Newman St. About $100,000.

Okla., Okmulgee — Hospital — City voted $150,000 bonds to construct new building and addition to present hospital. Architect not selected.

Okla., Picher—High School—Bd. Educ. having plans prepared by Tonini & Bramblett, Archts., 417 Terminal Bldg., Oklahoma City, for 2 story rein.-con. and steel, rein.-con. flooring, brick and concrete foundation. About $100,000.

Col., Boulder—School and Hospital—Bd. of Regents plans to build medical school and state hospital. About $1,500,000. Rockefeller Foundation donated $850,000; donation is based on condition that State Legislature and people provide an additional $800,000 for project.

Col., Denver—Office—W. N. Bowman Co., archts., Central Savings Bank Bldg., preparing plans for 6 story, 125 x 150 ft. physicians building and 2 story garage and filling station, on East 17th Ave. and Bway. About $1,000,000. Owners name withheld. Simm Finance Co., leasee.

Wash., Seattle—Home Service—Salvation Army, Lyon Bldg., having plans prepared by C. Siebrand, archt., Northern Life Bldg., for 3 story, concrete, on 7th Ave. and Pine St. About $130,000.

Wash., Seattle — Office — H. Pederson, Alaska Bldg., having plans prepared by H. Bittman, engr., Securities Bldg., for 4 story, 60 x 108 ft., rein.-con., on 4th and Bell Sts. About $100,000.

Wash., Tacoma—Schools—City election Dec. 7 to vote on $2,450,000 bonds to build and equip schools.

Cal., Bakersfield—Church—First Christian Church having plans prepared by R. H. Orr, archt., Van Nuys Bldg., Los Angeles, for new church, here, brick, Class "C" construction. About $100,000.

Cal., Grossmont—High School—San Diego Co. (San Diego) voted $110,000 bonds to build new union high school here. T. C. Kistner, Central Mortgage Bldg., San Diego, archt.

Cal., Santa Maria—High School—Bd. Educ. having plans prepared by Allison & Allison, archts., Hibernian Bldg., Los Angeles, for high school, here. About $400,000.

Ont., Brantford—Store—Banigan, Armstrong & Thompson, archts., 7 King St. E., Toronto, receives bids in spring, building 3 story, concrete and brick, concrete flooring and foundation, here, for L. R. Steel Co. Ltd., Royal Bank Bldg., Toronto. About $200,000. Noted Aug. 5.

Ont., Kingston—Dormitory—Queens University plans to build women's dormitory. About $150,000. R. B. Taylor, principal. Architect not selected.

Ont., Toronto — Exhibition — Canadian Natl. Exhibition, 38 King St. E., retained Chapman, Oxley & Bishop, Harbor Comn. Bldg., Hynes, Feldman & Watson, 73 King St. W., and Wickson & Gregg, Temple Bldg., archts., to look after buildings and developments and prepare plans for (1) pure food building, (2) British and French government buildings, (3) automobile building, (4) machinery hall, (5) music building, all 1 story, brick and steel. Cost between $2,000,000 and $3,000,000.

BIDS DESIRED

Mass., Needham (Boston P. O.)—School—McNaughton & Robinson, archts., 101 Tremont St., Boston, receiving bids building 2 story, 44 x 160 ft. with 40 x 60 ft. ell, concrete, brick and steel, rein.-con. flooring, concrete foundation, for School Comn. About $125,000. Noted Aug. 26.

Conn., Hartford — Hotel — Lockwood, Greene & Co., archts., 60 Federal St., Boston receiving bids building 6 story, brick and steel, rein.-con. flooring, concrete foundation, on Wells St., for Heublein Hotel, 98 Wells St. About $75,000. Noted Nov. 25.

N. Y., Buffalo—Schools—Until Jan. 19, by Bd. Educ., 1401 Telephone Bldg., constructing schools. J. Storer, secy.; advertised in this issue.

Pa., Bethlehem—Hotel—Until Dec. 15, by Ritter & Shay, archts. and engrs., North Amer. Bldg., Phila., constructing 10 story, 116 x 120 ft., brick, steel and stone, for Bethlehem Hotel Corp., c/o Chamber of Commerce. Noted July 29.

O., Cincinnati—School—Until Dec. 13, by Clerk Bd. Educ., building 4 story, 10 room, rein.-con. and brick, rein.-con. flooring, concrete foundation, on Herschel Ave. About $200,000. Bids will be received on one or all of following: (1) excavation, (2) plain and rein.-con. work, (3) cement work, (4) sidewalks, (5) brick masonry. C. W. Handman, 511 West Court St., business mgr.

O., Cleveland—Clubhouse—M. Altschuld, archt., 5116 Woodland Ave., receiving bids building 2 story, 44 x 76 ft., brick and steel, brick foundation, on East 105th St., for Unity Lodge, 926 I. O. O. F., care of N. Sogolovit, 2064 East 55th St. About $75,000.

O., Cleveland Heights (Warrensville P. O.)—School—Until Dec. 21, by Bd. Educ.,

Buildings (Continued)

Lee Rd., building 4 story, 35 x 90 ft., rein.-con., brick and steel addition, rein.-con. flooring, brick and concrete foundation, on Coventry Rd. and Washington Blvd. About $200,000. E. K. Bryan, clk. F. C. Warner, Hippodrome Annex Bldg., Cleveland, archt. Noted Nov. 4.

Ind., Lexington—School—Township Trustees receiving bids building 2 story, 63 x 68 ft., brick, concrete and steel. About $125,000. C. Shopbell & Co., Furniture Bldg., Evansville, archts.

Mich., Detroit—Market—Until Dec. 13, by H. J. Prenzlauer, secy. Pub. Welfare Comn., Detroit City Serv. Bldg., constructing 1 story, brick and steel addition, rein.-con. flooring, concrete foundation, on Russell St. About $75,000. J. Scott & Co., 2326 Dime Bank Bldg., archt.

Ill., Chicago—Bank and Office—Until Dec. 15, by Weary & Alford, archts., 1732 South Michigan Blvd., building rein.-con., brick and stone, rein.-con. flooring, concrete foundation, on 63rd St. and Woodlawn Ave., for Woodlawn Trust & Savings Bank, c/o architects. About $400,000.

Wis., Union Grove—Refectory and Dormitories—Until Jan. 4, by State Bd. Control, Capitol Bldg., Madison, constructing refectory and inmate buildings at Southern Wisconsin Home for Feeble-Minded and epileptic, here. A. Peabody, Madison, state archt. Noted June 24.

Minn., Brainerd—Church—Until Dec. 18, by G. A. Beale, chn. Baptist Church Congregation Com., building 2 story, 75 x 125 ft., brick and steel, rein.-con. flooring, concrete foundation. About $90,000. A. R. Van Dyck, 403 1st Natl. Soo Line Bldg., Minneapolis, archt. and engr.

Minn., Cloquet—Depot—Until Dec. 15, by O. N. Rognan, archt. and engr., Northern Pacific Eng. Dept., St. Paul, building 2 story, 65 x 145 ft. rein.-con., brick and steel, rein.-con. flooring, concrete foundation, here, for Northern Pacific Ry., 5th and Jackson Sts., St. Paul. About $85,000.

Minn., Duluth—Jail—Until March 1, by C. F. Naughton, chn. St. Louis Co. Bd., building 3 story, 145 x 190 ft. rein.-con., brick and tile, rein.-con. flooring, concrete foundation, on West 2d St. About $200,000. Architect not selected.

Kan., Emporia—Hospital—Until Jan. 4 by Lyon Co. building 3 story, 43 x 165 ft., rein.-con., steel and brick, rein.-con. flooring, concrete foundation. About $200,000. J. H. Felt & Co., 802 Grand Ave. Temple, Kansas City, Mo., archts. Noted Aug. 12.

Neb., Dannebrog—School—Bd. Educ. receiving bids building 2 story, 53 x 90 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation. W. M. Mampe, 559 Sheidley Bldg., Kansas City, Mo., archt. Noted Sept. 2.

N. D., Jamestown—High School—Until Jan. 2, by Chairman School Bd., building 3 story, 125 x 195 ft., brick and steel, rein.-con. flooring, concrete foundation. About $175,000. Shannon, Boyd & Boyd, Jamestown, archts. and engrs.

Mo., Springfield—High Shools—Until Jan. 1, by Bd. Educ., building three three-story 60 x 7 ft., with 50 x 68 ft. wings, brick and stone, brick foundation. About $200,000 each. Hawkins & Hoerner, McDaniel Bldg., archts. Noted Sept. 30.

Tex., El Paso—Bank—Until Feb. 15, by Weary & Alford, archts., 1732 South Michigan Blvd., Chicago, building rein.-con. and brick, rein.-con. flooring, concrete foundation, here, for 1st Natl. Bank, 1st National Bank Bldg. About $175,000.

Okla., Tulsa—High School—Until Dec. 6, by Bd. Educ., 6th and Cincinnati Sts., building 4 story, rein.-con., steel and brick, rein.-con. flooring, rock foundation. About $800,000. Former bids rejected. G. Winkler, 414 Palace Bldg., archt. Noted Oct. 28.

Que., Montreal—Dance Hall—Jardin de Dance Co., 265 Bleury St., receiving bids building 40 x 150 ft. dance hall, to replace one destroyed by fire. About $100,000. I. W. Maloney, mgr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Mass., New Bedford—School—Bd. Educ. received lowest bid Nov. 22, building P. S. 1 on Rochambeau St., and P. S. 2 on Mt. Pleasant St., each to be 2 story, 170 x 250 ft., brick, steel and concrete, rein.-con. flooring, concrete foundations, from J. W. Bishop Co., 109 Foster St., Worcester, $638,000 each. Noted Nov. 18.

Mass., New Bedford—School—Bd. Educ. received lowest bid Nov. 22, building 2 story, 171 x 184 ft., concrete, brick and steel, rein.-con. flooring, concrete foundation, on Summer, Mill, North and Chestnut Sts., from J. W. Bishop Co., 109 Foster St., Worcester, $519,000. Noted Nov. 18.

★**N. Y., New York**—Office—M. Gold c/o Gronenberg & Leuchtag, archts. and engrs., 303 5th Ave., will build 7 story, brick and steel, brick foundation, at 127-131 West 33rd St. About $325,000. Work will be done by day labor under supervision of architects.

★**N. Y., New York**—Office—Wendell Estate, c/o B. H. and C. N. Winston, archts., 2 Columbia Circle, will build 4 story, 58 x 116 ft., brick and stone, brick foundation, at 1900 Bway. About $300,000. Work will be done by day labor under supervision of architect.

★**N. Y., New York**—Office and Store—J. M. Gidding & Co., 5th Ave. and 46th St., let contract building 12 story, brick, steel and stone, concrete foundation, on 5th Ave. between 56th and 57th Sts., to T. J. Murphy, 405 Lexington Ave. Noted Oct. 28.

N. Y., Ossining—Prison—State Prison Bd., Albany, received bids for construction work for addition, here, from G. Colon & Co., 5055 Bway., New York City, $224,892, P. Kecler Bldg. Co., 425 Orange St., $227,200, Carrol Eng. Co., 103 Park Ave., New York City, $309,520; plumbing, from J. J. Kenney Co., 236 West 20th St., New York City, $30,000, Kenny-Moran Co., 33 Old Bway., New York City, $31,000, E. W. Tompkins & Co., 20½ Market St., $43,825; heating, from A. B. Barr & Co., 6 River St., Yonkers, $21,500, Globe Heating Co., 209 Washington Ave., Phila., $22,150, Miller & Brady, 210 East 38th St., New York City, $23,760.

★**N. J., Trenton**—School—St. Marys Greek Congregation let contract building 3 story, 62 x 116 ft., concrete, brick and stone, on Grand St., to Dempsey & Hardy, Trenton. About $168,000.

★**Md., Baltimore**—Office—Standard Oil Co., Pier 2, Pratt St., let contract building 15 story, 90 x 110 ft., concrete, brick and steel, concrete foundation, on Courtland and Franklin Sts., to J. H. Miller Inc., Eutaw and Franklin Sts. About $1,500,000. Noted Oct. 28.

D. C., Wash.—School—Dist. Comrs. received bids building Woodridge-Landgon School, from W. E. Mooney, Evans Bldg., (b) $165,111 (b) add $500, (c) add $35,246 (d) add $17,000 (e) add $34,800 (f) add $5,500 (10 months); E. D. Maxwell, Davidson Bldg., (1a) $168,000 (1b) deduct $336 (1c) add $15,791 (1d) $13,000 (1f) add $5,700 and add $2,433 for heat control (time as spec.); W. P. Lipscomb Co., Dist. Bldg., (1a) $173,300 (1b) deduct $1,500 (1c) $12,495 (1f) add $4,300 (182 days). Noted Oct. 14.

O., Bedford—High School—Bd. Educ. received bids Nov. 13, building 2 story, 115 x 185 ft. rein.-con., brick and steel, rein.-con. flooring, brick and concrete foundation, from Clemmer & Johnson, Metropolitan Bldg., Akron, $369,000; Drummond-Miller Co., 4500 Euclid Ave., Cleveland, $370,650; R. G. Witters, 1539 Harvard Court, N. W., Canton, $371,000. Noted Oct. 28.

★**Ind., Indianapolis**—Bank and Office—Natl. City Bank, 14-16 East Washington St., let contract building 14 story, brick, steel, limestone and terra cotta, stone foundation, at 112 East Washington St., to Hoggson Bros., 485 5th Ave., New York City. About $1,000,000.

★**Ind., Terre Haute**—Bank and Office—Citizens Trust Co., 612 Wabash Ave., let contract building 12 story, brick, steel and stone, to Hoggson Bros., 485 5th Ave., New York City. About $500,000. Noted Oct. 7.

★**Mich., Detroit**—Office—J. Stroh, 1676 Jefferson Ave., let contract building 18 story, 80 x 100 ft., rein.-con. brick and steel, rein.-con. flooring, concrete foundation, on Adams and Woodward Sts., to Lonquist & Illsley Co., 1100 North Clark St., Chicago. About $1,200,000. Noted June 3.

★**Mich., Gladstone**—Church—All Saints Congregation let contract building 1 story, 60 x 144 ft., brick, steel and stone, rein.-con. flooring, concrete foundation, to A. Arntzen, Escanaba. About $100,000. Noted July 29.

★**Ill., Chicago**—Bank and Office—Federal Reserve Bank, 79 West Monroe St., let contract building 14 story, 160 x 165 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Jackson Blvd. and LaSalle St., to J. Griffiths & Son Co., 112 West Adams St. About $3,000,000.

★**Wis., Milwaukee**—Bank—Amer. Exch. Bank, 144 2nd St., let contract building 2 story, 40 x 90 ft, brick and concrete, rein.-con. flooring, on Mitchel St., to W. G. Kasdorf, 307 Grand Ave. About $90,000. Noted Sept. 16.

★**Ia., Oskaloosa**—Theatre—G. T. Cruze let contract building 2 story, 75 x 150 ft., rein.-con. and brick, to P. W. Sparks, Oskaloosa. About $75,000.

Ia., Pocahontas—Court House—Pocahontas Co. received bids Nov. 23, building 2 story, 80 x 125 ft. brick, rein.-con and stone, from A. H. Neumann Co., 519 Hubbell Bldg., Des Moines, $354,881; J. A. McDonald Constr. Co., 752 Builders Exch. Bldg., Minneapolis, $364,500; Benson Constr. Co., Court Ave. and East 18th St., Des Moines, $375,952. Noted Nov. 11.

★**Ia., Shelby**—School—Ed. Educ. let contract building 2 story, 120 x 190 ft., rein.-con. and brick, to J. E. Wakefield Co., 730 Brandies Theatre Bldg., Omaha, Neb., $149,900 (roughed in work, no interior finish). Noted Oct. 28.

★**Minn., Long Prairie**—High School—Bd. Educ. let contract building 2 story, 75 x 160 ft. rein.-con., brick and stone, to Carlsted Bros., 542 Builders Exch. Bldg., Minneapolis, $86,692. Noted Nov. 11.

★**S. D., Sioux Falls**—Office, etc.—Chicago, St. Paul, Minneapolis & Omaha Ry., 375 East 4th St., St. Paul, Minn., let contract building 2 story, 30 x 236 ft. rein.-con. brick and steel office and freight house here, to G. J. Grant Constr Co., 902 Exch. Bank Bldg., St. Paul. About $56,000. Noted Sept. 9.

Okla., Enid—Temple—R. W. Shaw, engr., Beck Bldg., received low bid Nov. 15 from Grant & Buxton, Enid, building 100 x 150 ft., rein.-con., steel and brick, for Masonic Temple Assn. Total cost about $325,000. Noted Oct. 28.

Wash., Seattle—Fire Station—City received bids Nov. 19, building 2 story, 120 x 180 ft., concrete and brick, rein.-con. flooring, at 2318 4th Ave., from McRae Bros., Amer. Bank Bldg., $157,486; Hendrickson-Alstrom Co., Builders Exch., $163,860; Rounds Clist Co., Walker Bldg., $163,992. Noted Sept. 16.

★**Man., Winnipeg**—Home—Provincial Government, Parliament Bldgs., let contract building 2 and 3 story, rein.-con., brick and timber, rein.-con. and tile flooring, rock foundation, in Tuxedo Park, to Carter-Halls-Aldinger Co., 515 Union Bank Bldg. About $621,000. Noted Oct. 28.

Federal Government Work

PROPOSED WORK

Me., Bar Harbor—Electric Distribution System—Spec. 4341—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install at Naval Radio Station, Otter Cliff, here.

Me., Bar Harbor—Fire Protection—Spec. 4339—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install fire protection system, at Naval Radio Station, Otter Cliff, here, to include 50,000 gal. steel tank with steel tower, water mains and hydrants; $10 deposit required for plans and spec.

N. Y., Brooklyn—Refrigerating Equipment—Spec. 4282—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install in Building "F," here.

Miss., Vicksburg—Steel Barges—Third Mississippi River Dist., P. O. Box 494, rejected bids received Nov. 5, building 6 steel barges. Noted Oct. 14.

Mo., St. Louis—Earthwork—Mississippi River Comn., 1311 International Life Bldg., rejected bids received Nov. 5, building 1,100,000 cu.yd. earthwork Sny Island D.D. of Illinois. Noted Oct. 7.

H. T., Pearl Harbor—Marine Railway—Spec. 4254—Local Navy Yard, here, received no bids Nov. 17, completing marine railway.

BIDS DESIRED

D. C., Wash.—Electric Towing Locomotives—Until Dec. 22, at office of A. L. Flint, genl. purch. officer, Panama Canal, Wash., D. C., furnishing, here; advertised in this issue.

Ga., Columbus—Refrigeration Building—Until Dec. 20, by Constructing Quartermaster, Headquarters Bldg., Camp Benning, constructing, here; advertised in this issue. Noted Oct. 7.

Federal Government Work (Continued)

Kan., Leavenworth—Motor Repair Building—U. S. Government, Quartermaster Dept., receiving bids constructing 2 story, 100 x 250 ft., rein.-con., brick and steel motor repair building, rein.-con. flooring, concrete foundation. Private plans.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., L. I., Amagansett**—Buildings—Spec. 4337—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract constructing, here, to W. W. Constr. Co., Inc., 51 East 42nd St., New York City, $14,000 (90 days).

★**N. Y., L. I., Amagansett**—Steel Radio Towers — Spec. 4335 — Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building two 150 steel radio towers, here, to Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $9,540 (160 days). Noted Nov. 11.

★**N. Y., L. I.,—Sayville**—Radio Quarters—Spec. 4311—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building, here, to F. G. Fearo Co., Inc., 280 Madison Ave., New York City, $30,860 (85 days). Noted Oct. 28.

★**N. Y., New York**—Electric Traveling Bridge Crane—Spec. 4250—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building, here, to A. D. Granger Co., 15 Park Row, $36,555 (150 days). Noted Nov. 18.

N. Y., Oswego—Altering Post Office and Custom House—Treas. Dept., Wash., D. C., received bids Nov 19, altering and repairing, here, from Garber & Cissell, Bethlehem, Pa., $14,500; King Lumber Co., Charlottesville, Va., $21,737; G. E. Wright, Inc., Chicago Ill., $23,700. Noted Oct. 28.

★**Pa., Phila.**—Lumber Storage—H. J. Lumsden, officer in charge of construction, Frankford Arsenal, let contract building 1 story, 80 x 240 ft., concrete and brick lumber storage, on Bridge and Tacony Sts., to M. Melody & Son, 1322 Race St., $26,700. Noted Oct. 21.

★**Del., Wilmington**—Dredging—U. S. Engineer, War Dept., Wash., D. C., let contract dredging in Mispillion River, here, to Delaware Dredging Co., Colonial Trust Bldg., Phila., Pa., $5,440.

★**Va., Quantico**—Fence and Gate—Spec. 4316—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Marine Flying Field, here, to Cyclone Fence Co., 403 Stock Exch. Bldg., Phila., Pa., $6,929 (60 days). Noted Nov. 25.

Va., Quantico—Incinerator—Spec. 4266—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Nov. 24, building here, (1) work complete, from King Lumber Co., Charlottesville, (1) $41,800 (150 days), (1a) $26,450, (1b) $6,953, (1c) $3,400, (1d) $1,300, (1e) $3,700, (2) deduct $1,000, (3) deduct $1,200, (4) add $400; Hyde & Baxter, 1311 G. St., N. W., Wash., D. C., (1) $46,000 (150 days), (1a) $27,200, (1b) $12,000, (1c) $2,900, (1d) $1,200, (1e) $2,800, (2) deduct $1,000, (3) deduct $600, (4) add $500; Newport Constr. & Eng. Co., Silsby Bldg., Newport News, (1) $48,310 (150 days), (1a) $30,310, (1b) $9,800, (1c) $3,400, (1d) $1,400,(1e) $3,400, (2) deduct $1,500, (3) deduct $1,000, (4) add $700. Noted Nov. 11.

Fla, Pensacola — Mooring Mast — Spec. 4314—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids Nov. 24, building for nonrigid airships at U. S. Naval Air Station, here, (1) work complete, from Carroll Electric Co., 714-12th St., N. W., Wash., D. C., (1) $7,470 (90 days); Terry Mfg. Co., Grand Central Terminal, New York City, (1) $11,485 (90 days); T. and W. Constr Co., 135 William St., New York City, (1) $14,185 (150 days), (3) $1,335 (60 days). Noted Nov. 11.

★**Mo., St. Louis**—Earthwork—Mississippi River Comn., 1311 International Life Bldg., let contract building Kings Lake D.D., to Armstrong Eng. Co., Taylorsville, Ill. About $54,000. Noted Oct. 21.

★**Wash., Puget Sound**—Nurses Quarters—Spec. 4293—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building here, to Swenson & Co., 409 Arcade Bldg., Seattle. Noted Nov. 25.

Cal., San Diego—Quartermasters Storehouse—Spec. 4280—Bureau Yards & Docks, Navy Dept., Wash. D. C., received only bid Nov. 24, building at Marine Base, here, (1) work complete, from Hyde & Baxter, 1311 G. St., N. W., Wash., D. C., (1) $231,900, (2) $241,900, (3) $8,715, (4) $9,235, (5) $16,538 (6) $17,546, (7) $237,900, (8) $247,000, (9) $9,125, (10) $9,645, (11) $17,328, (12) $18,338, (13) $4, deduct $0.75, (14) deduct $4,000. Noted Nov. 4.

Cal., San Diego—Quartermasters Storehouse—Spec. 4280—Pub. Wks. Office, here, received bids building at Marine Barracks, Naval Base, (1) work complete, from Lange & Bergstrom, Timken Bldg., (1) $200,407, (2) $211,346, (3) $7,759, (4) $8,299, (5) $15,452, (6) $16,482, (7) $203,997, (8) $214,936, (9) $8,123, (10) $8,663, (11) $16,155, (12) $17,185, (13) add $3.50, deduct $0.90, (14) $3,590; Clinton Constr. Co., 140 Townsend St., San Francisco, (1) $208,210, (2) $218,870. Noted Nov. 4.

Miscellaneous

PROPOSED WORK

Pier—Brooklyn, N. Y.—Dept. Pub. Markets, Municipal Bldg., New York City, plans to build 1,000 ft. pier, on 39th St., here, to be used as market. About $1,500,000.

Piers—New York, N. Y.—Dept. Pub. Markets, Municipal Bldg., plans to build four 1,000 ft. piers, on Gansevoort and West Washington Sts., to be used as markets. About $5,000,000.

Pier—New York, N. Y.—Dept. Pub. Markets, Municipal Bldg., plans to build 1,000 ft. pier, on 150th St. and Harlem River, Bronx. About $1,500,000.

Velodrome—Newark, N. J.—Newark Stadium Co., care of J Eaton, 158 Market St. having plans prepared by Litchfield & Rogers, archts, 477 5th Ave, New York City, for velodrome and athletic field, of 25,000 seating capacity, at 751-811 Frelinghuysen Ave. About $250,000.

Stadium—Columbus, O.—Ohio State University retained C. T. Morris, engr., 2043 Iuka Ave. and H. D. Smith, archt., to prepare plans for steel and concrete stadium, to have 83 entrances and 63,000 seating capacity. About $1,000,000. Noted Nov. 11.

Pump, etc.—Albany, Wis.—City received no bids Nov. 12, furnishing 1 centrifugal pump, motor and control apparatus, etc., for waterworks plant. W. G. Kirchoffer, 31 Vroman Blk., Madison, engr. Noted Nov. 4.

Road Machinery—Antigo, Wis.—Bd. Supervs. Langlade Co. appropriated $15,000 to purchase new road machinery during 1921.

Auto Trailers, etc.—Ashland, Wis.—Ashland Co. appropriated $6,500 to purchase 3 auto trailers and loading device. W. E. Dillon, Highbridge, comr.

Road Machinery—Chilton, Wis.—Calumet Co. appropriated $8,000 to purchase road machinery, to include hard steam shovel and three 2 ton trucks. W. Hoenig, comr.

Graders, etc.—Eagle River, Wis.—Vilas Co. appropriated $13,600 to purchase six No. 2 graders and other small machinery. W. F. Hunter, comr.

Road Machinery—Eau Claire, Wis.—Eau Claire Co. appropriated $15,000 to purchase road machinery for 1921. G. Osborne, comr.

Road Machinery — Ellsworth, Wis. — Pierce Co. voted $15,000 bonds to purchase machinery, to include 2 trucks and loading outfit. C. F. Kenall, comr.

Patrol and Construction Machinery—Elkhorn, Wis.—Walworth Co. appropriated $16,000 to purchase patrol and construction machinery for highway purposes for 1921. H. J. Peters, comr.

Paving Outfit—Fond du Lac, Wis.—Bd. Supervs. Fond du Lac Co. appropriated $10,000 to purchase complete paving outfit.

Road Machinery—Friendship, Wis.—Adams Co. appropriated $2,000 to purchase road machinery for 1921. J. A. McGregor, Hancock, comr.

Road Machinery—Oshkosh, Wis.—Winnebago Co. appropriated $15,000 to purchase road machinery. J. Binnings, comr.

Road Machinery — Shawano, Wis. — Shawano Co. appropriated $25,000 to purchase road machinery, to include 3 trucks, tractor and loading device. W. F. Meyer, comr.

Road Machinery—Sheboygen, Wis.—Sheboygan Co. appropriated $15,000 to purchase road machinery, to include steam roller. G. Ubbelohde, Court House, engr.

Road Machinery—Viroqua, Wis.—Vernon Co. voted $10,000 bonds to purchase road machinery, to include crushers, storage tanks and steam roller. A. Ristow, comr.

Road Machinery—Wisconsin Rapids, Wis.—Wood Co. voted $30,000 bonds to purchase road machinery, to include planers, pile driver, pump and cement mixer. E. Morris, comr.

Lake Improvements—Minneapolis, Minn.—City authorized $586,000 bonds to complete improvements at Lake Nakomis, including dredging, building up shore, planting, etc. J. H. Ridgeway, secy. Bd. Park Comrs.

Wharves—Beaumont, Tex.—City plans election to vote on $500,000 bonds to improve wharves, etc., to include building 500 ft. unit of municipal docks and 2 sheds 1 of which will be 400 x 400 ft. for export of lumber. A. B. Steinhagen, mayor.

Plunge—Redlands, Cal. — City having plans prepared by P. E. Hicks, care of City Engineer, for 60 x 100 ft. outdoor plunge, rein.-con. in Sylvan Park, to have 120 dressing rooms.

Culverts—Ontario—Dept. Pub. Highways, Toronto, plans to build concrete culverts in following townships: Guillimbury, West Inisfill, Barrie, Vespra, Oro, Orillia, South and North Rama, Hope, Hamilton, Monaghan, Beckwith, Cavan, Pittsburg, Leeds, Crosby South, Bastard, Kitley, Elmsley South, Drummond, Lanark, Ramsey, Goulbourn, Gloucester, Cumberland, Clarence, North Plantagenet, Alfred, Longueuil, Hawkesbury West and East, Huntley, Ottawa, Nepean, Tyendinaga, Sydney, Charlottenburg, Lancaster, Osnabruck, Cornwall, Elizabethtown, Augusta, Lansdowne. W. A McLean, deputy minister.

BIDS DESIRED

Filter Sand—Hartford, Conn.—Until Jan. 10, by Bd. Water Comrs. furnishing 21,000 yd. filter sand and 12,000 yd. filter sand in filter beds. C. M. Saville, engr.

Laundry Equipment—Brooklyn, N. Y.—Until Dec. 15, by State Hospital Comn., Capitol, Albany, for laundry equipment at Brooklyn State Hospital, here. About $25,000. L. F. Pilcher, Albany, state archt.

Laundry Equipment—Hudson, N. Y.—Until Dec. 15, by A. W. Allen, pres. Bd. Mgrs., New York State Training School for Girls, furnishing laundry equipment; advertised in this issue. Noted Nov. 4.

Equipment—New York, N. Y.—Until Dec. 9, by M. Hulbert, comr. Docks, Pier "A," ft. Battery Pl., North River, furnishing and installing freight handling equipment on pier at foot of East 5th St., East River. Contr. A, cargo beams and fittings; Contr. B, electric work; Contr. C, winches.

Ferryboat—New York, N. Y.—Until Dec. 9, by G. A. Whalen, comr. Plant & Structures, Municipal Bldg., constructing steel screw ferryboat.

Pier Fender, etc.—New York, N. Y.—Until Dec. 9, by G. A. Whalen, comr. Plant & Structures, Municipal Bldg., rebuilding and repairing center pier fender, southeast timber bulkhead and pile clusters, at Greenpoint Ave. Bridge, over Newtown Creek.

Incinerator—Long Branch, N. J.—Until Dec. 14, by Bd. Comrs, City Hall, building incinerator. E. F. Lawyer, clk.; advertised in this issue.

Foundations—Phila., Pa.—Until Dec. 21, by F. H Craven, dir. Pub. Wks., and Bd. Trustees, Free Library of Phila., Room 216, City Hall, building foundations for library, on Vine, 19th, Wood and 20th Sts. J. Ashhurst, librarian; advertised in this issue.

Brass Strainers, etc.—Phila., Pa.—Until Dec. 7, by F. H. Craven, dir. Dept. Pub. Wks., Room 216, City Hall, furnishing and delivering brass strainers for Queen Lane filters (Contr. 438); c.i. pipe and specials for Queen Lane Pumping Sta. (Contr. 439); furnishing and installing chlorine apparatus in Belmont filters (Contr. 440); furnishing filter sand at Torresdale filters (Contr. 441); furnishing and delivering steel pipe and specials for Queen Lane Pumping Sta. (Contr. 442); sand pumps for Queen Lane Pumping Sta. (Contr. 443); furnishing w.i. and c.i. pipes, etc. for Torresdale filters (Contr. 444); furnishing and delivering bolts for Queen Lane Pumping Sta. (Contr. 445); electric wiring for 2d Survey Dist. (Contr. 446).

Wire—New Orleans, La.—Until Dec. 14, by Bd. Port Comrs., Suite 200, New Orleans Court Bldg., furnishing rubber covered, weather-proof and bare copper wires; advertised in this issue.

Miscellaneous (Continued)

Water Tube Boilers and Equipment—Milwaukee, Wis.—Until Dec. 17 (change of date), by Sewerage Comn., furnishing and building 4 horizontal water tube boilers and equipment. J. H. Fowles; advertised in this issue. Noted Nov. 25.

Sweeping Machine—Racine, Wis.—City receiving bids for street sweeping machine. P. H. Connolly, City Hall, engr.

Paving Materials—Minneapolis, Minn.—Until Dec. 13, by K. E. Alexander, city purch. agt., City Hall, furnishing 40,000 bbl. Portland cement, 1,770 ton asphaltic cement, 1,000 ton tar, 1,000 ton paving pitch, 2,125,000 vitr. paving bricks, 90,000 sq.yd. yellow pine creosoted blocks 3½ x 8½ x 4 for city improvements, also 15,000 bbl. cement and 1,900 ton tar for Park Bd. use. F. W. Cappelen, city engr.

Motors and Pumps—Sacramento, Cal.—Until Jan. 11, by State Recl. Bd., 853 Forum Bldg., furnishing 3-phase, 60 cycle, 2,300-volt induction motors and low lift vertical centrifugal pumps for Chandler, Tisdale and Wadsworth Pumping Stations, in Sutter Co. T. Mayhew, secy.

Tanks—Montreal, Que.—Royal Duke Refinery Co., 157 St. James St., receiving bids erecting 10 tanks, on Notre Dame St. About $7,000 each.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Seawall—Hull, Mass.—Town let contract building rein.-con. seawall on Grover Ave., to B. Weston, Allerton. About $15,000.

★Pier—Stamford, Conn.—Yale & Towne Mfg. Co., 548 Pacific St., let contract building rein.-con pier, at plant, to Vuona Constr. Co., Bank Bldg. About $15,000.

Electric Equipment—Brooklyn, N. Y.—Bd. Educ., 500 Park Ave., New York City, received bids Nov. 23, installing electric equipment in P. S. 181, on New York Ave. and East 34th St. between Tilden and Snyder Aves., here, from Croker Natl. Fire Prevention Eng. Co., 1270 Bway., $46,685; T. F. Jackson, Inc., 99 John St., $48,000, both in New York City.

Conduits—New York, N. Y.—Fire Dept.—received bids No. 29, furnishing, delivering and installing conduits, etc. completing Contr. 120 of Bates Co.), from Croker Natl. Fire Prevention Co., 1270 Bway., $26,300; Klienschmidt Electric Co., Inc., $39,385.

Dumping Scows—New York, N. Y.—Dept. Street Cleaning, Room 1244, Municipal Bldg., received bids Nov. 23, building 5 dumping scows, from J. Hilderbrant, (a) $309,750, (b) $319,750; J. H. Matthews, (a) $437,250; U. S. Steamship Co., 50 Broad St., (a) $287,280, (b) $298,715. Noted Nov. 18.

Enclosures—New York, N. Y.—Pub. Serv. Comn., 49 Lafayette St., received bids Nov. 19, building inspection shed enclosures in 180th St. Yard, Route 18, from S. S. Jones, 473 West 158th St., $358,565; Nugent Constr. Co., 505 5th Ave., $398,017; Bainbridge Constr. Co., 52 Vanderbilt Ave., $414,171. Noted Nov. 11.

Underground Cables—New York, N. Y.—R. E. Enright, police comr., 240 Centre St., received bids Nov. 29, installing new underground cable and telephone cable on Manhattan Bridge structure between here and Brooklyn anchorages, from F. J. Dougherty, 186 Washington St., $11,985; S. Smyth, Jr., 150 East 41st St., $11,991; Lustig & Weil, 103 Park Ave., $12,151. Noted Nov. 18.

Portland Cement—Detroit, Mich.—Comn. of Purchases & Supplies, Municipal Court Bldg., received bids Nov. 16, furnishing 50,000 bbl. Portland cement in cloth sacks, from Huron & Wyandotte Portland Cement Co., 1524 Ford Bldg., at $3.68 per bbl., total $184,000; H. J. Dickinson Co., 1140 14th Ave., $3.98, $199,000. Wabash Portland Cement Co., 1824 Ford Bldg., bid on 10,000 bbl. at $3.71 per bbl., $37,100. Noted Nov. 11.

Lock and Dam—Chicago, Ill.—F. I. Bennett, dir. Dept. Pub. Wks. & Bldgs., Div. of Waterways, Room 1404, 25 East Jackson Blvd., received bids Nov. 22, building Starved Rock Lock and Dam, on Illinois River, from Thompson-Black & Co., 212 West Washington St., $2,825,000; Bates & Rogers, 37 West Van Buren St., $4,304,000. Noted Oct. 21.

★Foundation — Oconomowoc, Wis.—Oconomowoc Theatre Co., Inc., let contract building concrete foundation for 2 story, 68 x 115 ft. rein.-con., brick and steel theatre and office, on Main St., to J. L. Stanage, 144 Oneida St., Milwaukee, $26,500. Noted Nov. 11, under "Buildings."

★Road Machinery and Gravel Pit Equipment—Sioux City, Ia.—Woodbury Co. let contract furnishing 60 ft. drag line, electrically equipped, to C. Browning Co., 17701 Lake Shore Blvd., Cleveland, O., $24,500; bucket, elevator, screen, settling tanks, centrifugal pump, crusher, car puller, to Bowman Mchy. Co., 1207 Howard St., Omaha, Neb., $17,935; power equipment, engine, generators, switchboard, motors, oil tank, to Fairbanks-Morse Co., 900 South Wabash Ave., Chicago, $20,000. Noted Oct. 21.

★Wheelpits, etc.—Cloquet, Minn.—North West Paper Co., East End, let contract replacing wheelpits and apron and deepening tail race, involving 2,000 cu.yd. concrete and 500,000 ft. timber, to Siems, Helmers & Schaffner, 514 Guardian Life Bldg., St. Paul.

★Fill, etc.—Vancouver, B. C.—Canadian Natl. Ry. let contract filling in False Creek Flats under Main St. bridge, building 2 large sewers through reclaimed area of False Creek, removing Main St. bridge and old buildings and reconstructing electric railway tracks, to Pacific Constr. Co., Ltd., 510 Hastings St. W. About $350,000.

Applications before the Federal Power Commission, Washington, D. C., from September 28 up to and including November 20.

62. A. P. Seybold, 1213 Hobart Bldg., San Francisco, Cal. Preliminary permit for power project — Klamath River and Bluff Creek, Klamath National Forest, Cal.

63. Alaska Endicott Mining & Milling Co., c/o John B. Marshall, Attorney at Law, Juneau, Alaska. Preliminary permit for power project—unnamed stream and lake near the head of William Henry Bay (Lynn Canal), Alaska, for mining.

64. Sespe Light & Power Co., Suite 305, Merchants Trust Bldg., Los Angeles, Cal. Preliminary permit for reservoirs, conduits and power houses—Piru Creek, Santa Barbara National Forest, Cal.

65. William Park Mills, c/o Philip S. Brown, Attorney and Counselor, 607 Montana Bldg., Missoula Mont. Preliminary permit for reservoir, conduit and power house—Vermilion River, Cabinet National Forest, Mont., to supply electricity to mining district in T. 25 N., R. 30 W., M. P. M.

66. Spirit Lake Railway & Power Co., c/o Joseph Roane, President, 110 East 12th St., Vancouver, Wash. Preliminary permit for reservoir, conduit and power house—Toutle River and Split Lake, Columbia National Forest, Wash., for public service timbering and milling, and ore mining.

67. Southern California Edison Co., c/o G. C. Ward, Vice President, Edison Bldg., Los Angeles, Cal. License for dam, conduit, power house and transmission line, Big Creek, Fresno County, Cal., for public utility.

68. Wenatchee Commercial Club, c/o V. H. Clearman, Secretary, Wenetchee, Wash. Preliminary permit for dam and power house, Rock Island and Cabinet Rapids, Columbia River.

69. United Mills Co., c/o H. J. Holbrook, Secretary, Hickory, N. C. Preliminary permit—may be advisable to treat as declaration of intent—for dams, power houses and transmission lines, Harpers Creek, Caldwell County, N. C., for running cotton mill and public utility in Mortimer, N. C.

70. Rock Creek Power Co., c/o John Shaughnessy, President, R. F. D. No. 2, Missoula, Mont. License for reservoir conduit and power house Rock Creek, Granite County, Montana, in Missoula National Forest, for power, lighting, heating, mining, manufacturing and other useful purposes.

71. H. H. Wadsworth, Holbrook Bldg., San Francisco, Cal. Preliminary permit for reservoir, conduit, power house and transmission line, Middle Yuba between Kenaka and Dobins Creek, Tahoe National Forest, for public utility, Sacramento Valley.

72. Southern Sierras Power Co., c/o A. B. West, General Manager, Riverside, Cal. Preliminary permit for three power plants, reservoirs conduits and transmission lines, Convict Creek, Inyo Forest Reserve, Cal., for public utility.

73. J. G. Van Zandt, c/o W. L. Huber, First National Bank Bldg., San Francisco, Cal. Preliminary permit for reservoir, conduit and power house on Bear and Santa Anna Creeks, Cal.

74. Electro Metals Co., a trust—W. G. Devereaux, President, 729 Call Bldg., San Francisco, Cal. Preliminary permit for dam, reservoir, tunnels, penstocks, power house and to divert 300 s.f. from Salmon River for reduction of ores.

75. R. G. McDonald, Williams, Cal. Preliminary permit for two power plants, reservoirs, conduits and transmission lines, Convict Creek, Inyo Forest Reserve, Cal. for use in mines, mills, pumping.

76. J. Harvey Pierce, 4838 Elmwood Ave., Los Angeles, Cal. Preliminary permit for three dams and three power houses—transmission—Mammoth Creek, Inyo Forest Reserve, Mono County, Cal., for mining and lighting.

77. Snow Mountain Water & Power Co., c/o Pillsbury, Madison & Sutro, Attorneys, Standard Oil Bldg., San Francisco, Cal. Preliminary permit for two dams, reservoirs, conduits, and transmission lines, South Eel River, California Forest Reserve, Cal., for public utility.

78. Western States Gas & Electric Co., H. M. Byllesby & Co., Engineers and Managers, Stockton, Cal. Preliminary permit for enlargement of American River Conduit, Summerfield Ditch and right-of-way for transmission lines, South Fork American River, Eldorado National Forest, Cal.

79. William C. Albertson and Stephen L. Mershon — an association, Fort, Hunt & Shipman, Attorneys, Newark N. J. Preliminary permit for dam, power house transmission, Delaware River, at Foul Rift, two miles south of Belvidere, N. J.

80. Amazon Dixie Mining Co., Wallace, Idaho. License to construct transmission line over Lolo National Forest in Missoula County, Mont., for mining operations of the company.

81. Granite Falls Manufacturing Co., A. A. Shuford, Secretary, Granite Falls, Caldwell County, N. C. Preliminary permit for dam and reservoir, conduit, power house and transmission line on Wilson Creek, Caldwell County, N. C., for public utility in Lenoir, N. C.

82. Alabama Power Co., Birmingham, Ala. License for dam, power plant and transmission line, Coosa River at Duncan's Riffle, Ala., for public utility.

83. Paving Granite Quarry Co., Rapid City, S. D. License for transmission line one mile long in Black Hills National Forest Reserve, for power to quarry.

84. Town of Ronan, John P. Swee, Mayor, Missoula County, Mont. Preliminary permit for dam, power house and transmission line on public lands, Crow Creek, Missoula County, Mont., for public utility.

85. Southern California Edison Co. (Salmon Creek Reservoir, Horse Creek Diversion), Edison Bldg., Los Angeles, Cal. License for diversion dam and conduit leading Horse Creek into Salmon Creek. Dam and storage reservoir on Salmon Creek to regulate flow of water to applicants' plants on Kern River, for public utility.

86. John Daniell, c/o Colonial Hotel, Springfield, Mo. License for dam in Current River at Sec. 14 T. 29 N., R 3 W., Shannon County, Missouri.

87. Coast Valleys Gas & Electric Co., c/o Chickering & Gregory, 1232 Merchants Exchange Bldg., San Francisco, Cal. License for transmission line across public lands, from T. 18 S., R. 10 E. to E. 17 S., R. 12 E., San Benito, Cal., for power to quicksilver mines.

88. Merced Irrigation District (a municipality), Merced, Merced County, Cal. Preliminary permit for dam at Exchequer on Merced River for irrigation and power, to sell power to San Joaquin Light & Power Co., and operation of drainage pumps in the Irrigation District.

89. Garland Hydro Electric Power Co., c/o Lemuel Sparkman, 113 Fulk Bldg., Little Rock, Ark. License for two dams and reservoirs and one power house on the Ouachita River near the boundary between Montgomery and Garland Counties, Arkansas, for public utility.

90. Frank G. Baum, 1901 Hobart Bldg., San Francisco, Cal. License for power development on Little Colorado River at Grand Falls—Tolchaco and at Coconino. Both points in Arizona.

91. Frank G. Baum, 1901 Hobart Bldg., San Francisco, Cal. License for power development on Black River, Arizona.

92. W. H. Shrader, 21 East Gonzales St., Pensacola, Fla. Preliminary permit for power development at the U. S. Government dam on the Sunflower River in Washington County, Miss.

93. R. L. Weeks, Major, retired, U. S. Army Recruiting Station, 4th and Main Sts., Los Angeles, Cal. Preliminary permit for power development at Shrimp Bay, Tongass National Forest, Alaska, for power for pulp mill.

94. Alaskan-American Paper Corp., 23 East 26th St., New York City. Preliminary permit for dam and power house at Orchard Lake outlet to Shrimp Bay, Revillagigedo Island, Tongass National Forest, Alaska, for power for pulp mill.